

The Samsung logo, consisting of the word "SAMSUNG" in white, bold, sans-serif capital letters inside a black, horizontally-oriented oval.

DIGITAL TELEVISION

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

**ON-SCREEN MENUS
TELETEXT
DIGITAL TERRESTRIAL RECEIVER**



Register your product at www.samsung.com/global/register

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Symbols



Press



Important

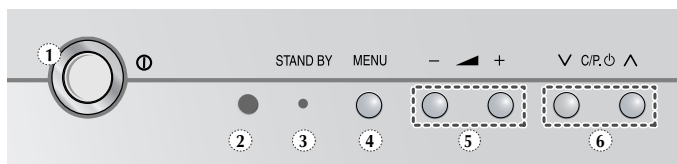


Note

Control Panel

- The actual configuration of your TV may be different, depending on your model.

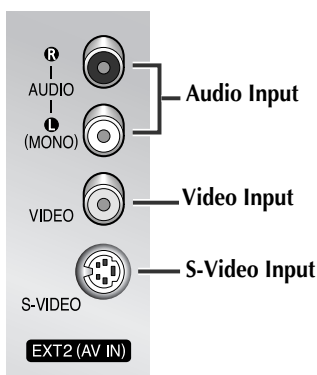
Front of the TV



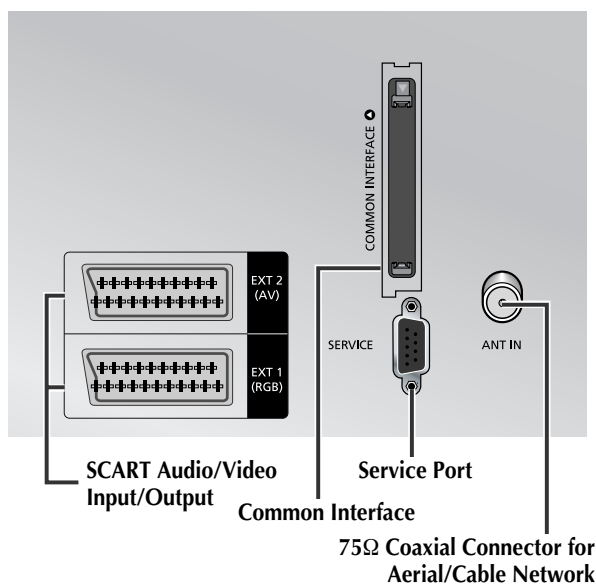
- 1) Switch the TV on and off
- 2) Remote control sensor
- 3) Standby & Timer indicator
- 4) Display the on-screen menu
- 5) Adjust the volume
- 6) Select channels

- ♦ You can use the ∇ C/P. \circ \wedge buttons to switch on the TV when it is in standby mode.
- ♦ The $-$ \blacktriangleleft $+$ and ∇ C/P. \circ \wedge buttons have the same function as the \blacktriangleup / \blacktriangledown / \blacktriangleleft / \blacktriangleright buttons on the remote control in main menu mode.
- If the remote control no longer works or you have misplaced it, you can use the controls on the panel of the TV.
- ♦ Press the **MENU** button once in DTV mode, then the DTV menu is displayed. For displaying the analog menu, press it twice. Press the **MENU** button three times to off.
- ♦ To change external sources, display the analog menu by pressing the **MENU** button twice and refer to "Viewing an External Signal Source" on page 52.

Side of the TV



Rear of the TV



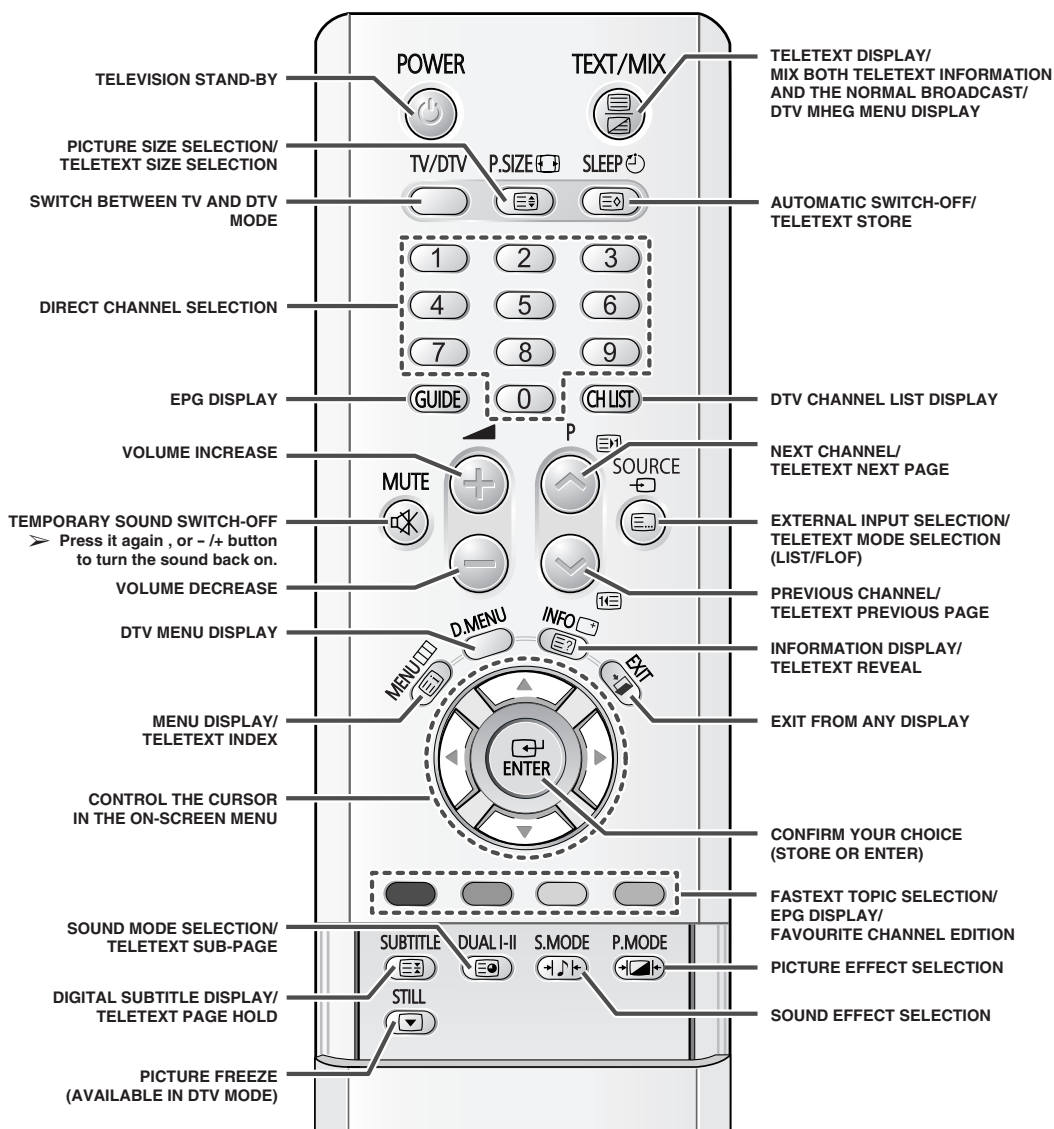
- ♦ Please be sure to match the colour coded input terminals and cable jacks.
- ♦ For further details about connection, refer to pages 58–60.
- ☞ Whenever you connect an audio or video system to your television, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Infrared Remote Control

➤ Buttons and markings are subject to change.

The remote control is used mainly to:

- ◆ *Change channels and adjust the various settings*
- ◆ *Use the EPG (Electronic Programme Guide)*
- ◆ *Set up the television using the on-screen menu system*



➤ The performance of the remote control may be affected by bright light.

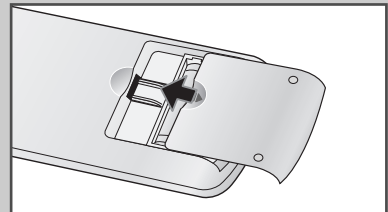
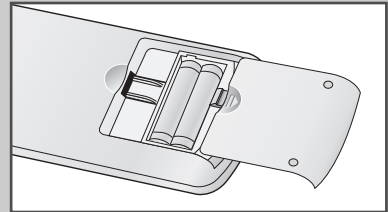
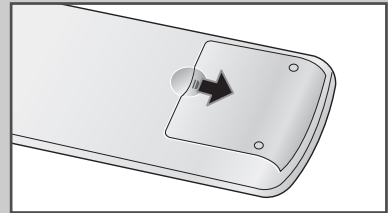
Inserting the Batteries into the Remote Control

You must insert or replace the batteries in the remote control when you:

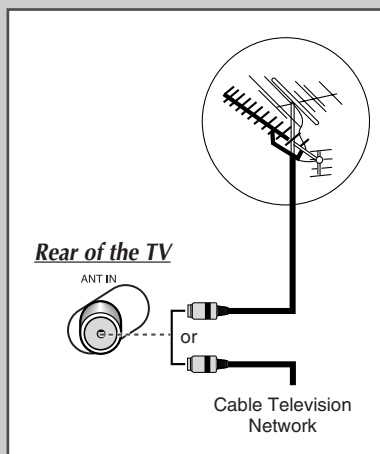
- ◆ *Purchase the television*
- ◆ *Find that the remote control is no longer operating correctly*

- 1 Remove the cover on the rear of the remote control by pressing the symbol (▼) downwards and then pulling firmly to remove it.
- 2 Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to respect the polarities:
 - ◆ - on the battery against - on the remote control
 - ◆ + on the battery against + on the remote control
- 3 Replace the cover by aligning it with the base of the remote control and pressing it back into place.

➤ Do not mix battery types, i.e. alkaline and manganese.



Connecting to an Aerial or Cable Television Network



To view television channels correctly, a signal must be received by the set from one of the following sources:

- ◆ *An outdoor aerial*
- ◆ *A cable television network*
- ◆ *A satellite network*

1 In the first three cases, connect the aerial or network input cable to the **ANT IN** on the rear of the television.

2 If you are using an indoor aerial, you may need to adjust it when tuning your television until you obtain a picture that is both sharp and clear.

For further details, refer to:

- ◆ **(Digital TV)** "Updating the Channel List Automatically" on page 15
 - ◆ **(Digital TV)** "Updating the Channel List Manually" on page 16
 - ◆ **(Analog TV)** "Storing Channels Automatically" on page 32
 - ◆ **(Analog TV)** "Storing Channels Manually" on page 34
-

Switching Your Television On and Off

The mains lead is attached to the rear of your television.

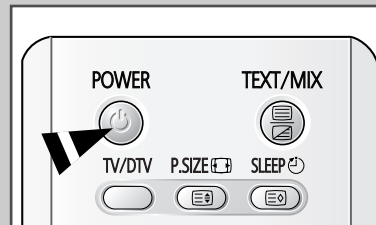
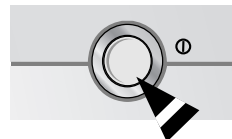
- 1 Plug the mains lead into an appropriate socket.
 - The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.
- 2 Press the "⏻" (On/Off) button on the front of the television.

Result: The Standby indicator on the front of the television lights up.
- 3 Press the **POWER** (⏻) button on the remote control to switch the television on.

Result : The programme that you were watching last is re-selected automatically.

 - If you have not yet stored any channels, no clear picture appears. Refer to "Storing Channels Automatically" on page 32 or "Storing Channels Manually" on page 34.
 - You can also switch the television back on by pressing the **P** (⏻) (or **✓C/P** (⏻) on the front panel) or numeric button on the remote control.
- 4 To switch your television off, press the "⏻" (On/Off) button again.

Front of the TV



Placing Your Television in Standby Mode

Your television can be placed in Standby mode, in order to reduce:

- ◆ *Power consumption*
- ◆ *Wear of the cathode ray tube*

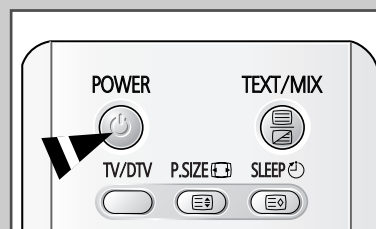
Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

- 1 Press the **POWER** (⏻) button on the remote control.

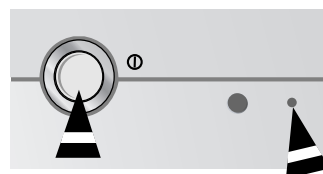
Result : The screen is turned off and the **Standby indicator** on the front of the television lights up in red.
- 2 To switch the television back on, simply press the **POWER** (⏻) button again.
 - You can also switch the television back on by pressing the **P** (⏻) (or **✓C/P** (⏻) on the front panel) or numeric button on the remote control.



Do not leave your television in Standby mode for long periods of time (when you are away on holiday, for example). Turn your television off by pressing the "⏻" (On/Off) button on the front of the television. It is best to unplug the set from the mains and aerial.



Front of the TV



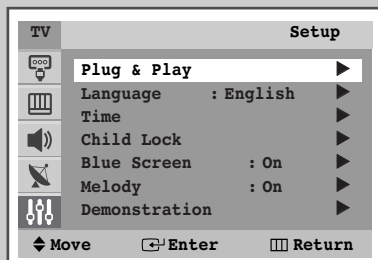
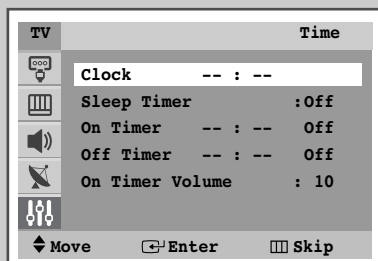
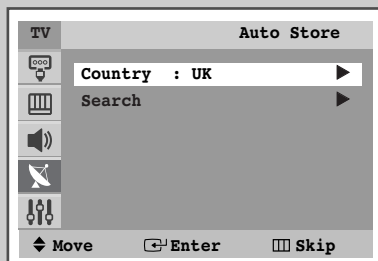
Plug & Play Feature

Plug & Play



Check antenna input.

Enter Skip



When the television is initially powered on, three basic customer settings proceed automatically and subsequently: setting the language, channel and clock.

- 1 If the television is in Standby mode, press the **POWER** (⏻) button on the remote control.

Result: The message **Plug & Play** is displayed. It flickers for a little while and then **Language** menu is automatically displayed.

- 2 Select the appropriate language by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button to enter the language.

Result: The message **Check antenna input.** is displayed.

➤ If any language is not selected on the **Language** menu, the **Language** menu will disappear about 30 seconds later.

- 3 Make sure that the antenna is connected to the TV. Press the **ENTER** (↵) button.

Result: The **Auto Store** menu is displayed with **Country** selected.

- 4 Press the **ENTER** (↵) button again. Select your area by pressing the ▲ or ▼ button, then press the **ENTER** (↵) button. To search the channels, select **Search** by pressing the ▲ or ▼ button, and then press the **ENTER** (↵) button. Press the **ENTER** (↵) button again to start search the channels. Press the **MENU** (⏻) button to stop the search.

Result: The **Time** menu is displayed with **Clock** selected.

➤ Refer to "Storing Channels Automatically" on page 32.

- 5 Press the ◀ or ▶ button to move to the hour or minute. Set the hour or minute by pressing the ▲ or ▼ button.

➤ Refer to "Setting and Displaying the Current Time" on page 47.

- 6 When you have finished, press the **MENU** (⏻) button.

Result: The menu is turned to **Auto Store** in DTV mode automatically.

- 7 **If you want to reset this feature...**

➤ Not available in DTV mode.

- 1 Press the **MENU** (⏻) button.

- 2 Press the ▲ or ▼ button to select **Setup**, and then press the **ENTER** (↵) button.

Result: The **Plug & Play** is selected.





- 3 Press the **ENTER** (↵) button again.

Result: This feature starts with the message **Plug & Play** displayed.

Changing Channels

- It may take some time to display a channel if your chosen channel has the MHEG feature.

Using the P buttons.

Press the **P**  **P**  button on the remote control ( **C/P**  on the front of TV).

The TV changes channels in sequence. You can select all channels (analog and digital channels) that the TV has memorized.

- You can not select channels that were either erased or not memorized.

Using the numeric (0~9) buttons.

Press the numeric buttons to quickly tune to any channel.

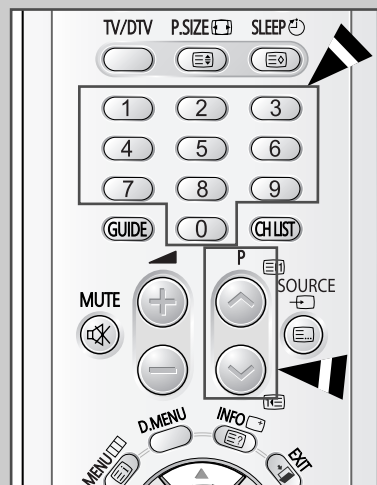
- You can select all channels that were either erased or not memorized.

To select analog channel **27**, press the **2**, then **7**.

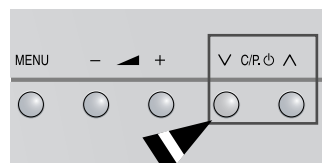
To select digital channel **27**, press the **0**, **2**, then **7**.

The TV will change channels when you press the second number.

To change to single-digit channels (0~9) faster, press the **0** before the single digit. (For analog channel **4**, press the **0**, then **4**. For digital channel **4**, press the **0**, **0**, then **4**.)

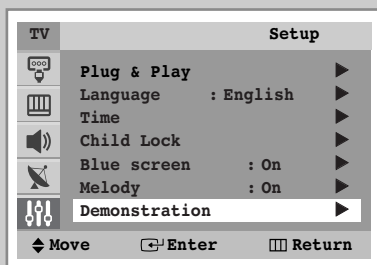


Front of the TV



- **MHEG (Multimedia and Hypermedia Information Coding Experts Group)?**
An International standard for data encoding systems used in multimedia and hypermedia. This is at a higher level than the MPEG system which includes data-linking hypermedia such as still images, character service, animation, graphic and video files as well as multimedia data. MHEG is user runtime interaction technology and is being applied to various fields including VOD (Video-On-Demand), ITV (Interactive TV), EC (Electronic Commerce), tele-education, tele-conferencing, digital libraries and network games.

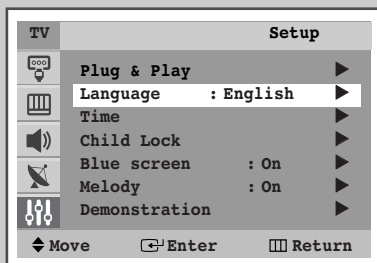
Viewing the Demonstration



To become familiar with the various menus provided by your television, you can view the in built demonstration.

- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the ▲ or ▼ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** (↵) button.
- 4 Press the ▲ or ▼ button to select **Demonstration**.
- 5 Press the **ENTER** (↵) button.
Result: Each of the menu options is displayed in turn.
 ➤ When you wish to exit from the demonstration, press the **EXIT** (✖) button on the remote control.

Choosing Your Language



When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.

- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the ▲ or ▼ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** (↵) button.
- 4 Press the ▲ or ▼ button to select **Language**.
- 5 Press the **ENTER** (↵) button.
- 6 Select the appropriate language by pressing the ▲ or ▼ button repeatedly.
- 7 Press the **ENTER** (↵) button.

Previewing the DTV Menu System

- Available in DTV mode.
Preset to the DTV mode by using the TV/DTV button.

To help you navigate around the on-screen menu system and adjust the various settings available, refer to the following illustration.

Press the “D.MENU” button.

Guide

- Now & Next Guide
- Full Guide
- Scheduled List
- Default Guide → Now/Next Full Guide

Preference

- OSD Language → English
Deutsch
Español
Italiano
Svenska
- Translucency Level → High
Medium
Low
Opaque
- Parental Lock → Parental Rating
Change PIN

Feature

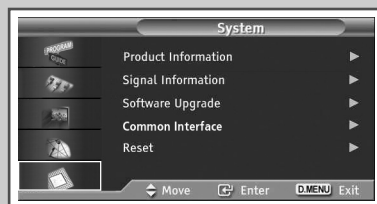
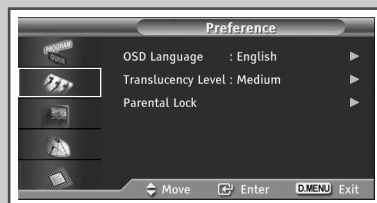
- Subtitle → Off
On
- Subtitle Language
- Audio Language → English
- Digital Text → Disable
Enable

Channel

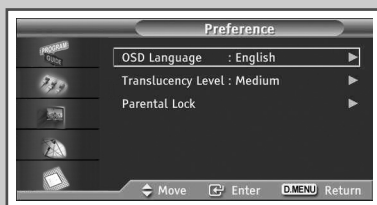
- Auto Store
- Manual Store → Channel
Frequency
Bandwidth
- Favourite Channels
- Channel List

System

- Product Information
- Signal Information
- Software Upgrade
- Common Interface → Application Info.
CI Menu → Module information
Smart card information
Language
Software Download
- Reset



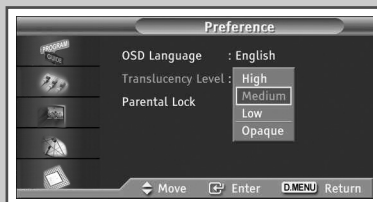
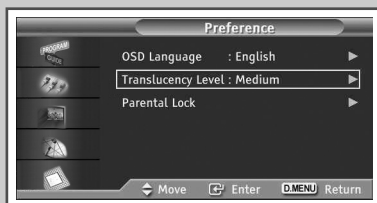
Choosing Your Language



When you start using your television for the first time, you must select the language which will be used for displaying menus and indications

- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **Preference**.
Result: The options available in the **Preference** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
Result: The **OSD Language** is selected.
- 4 Press the **ENTER** (**↵**) button again.
Result: The available languages are listed.
- 5 Select the appropriate language by pressing the **▲** or **▼** button.
- 6 Press the **ENTER** (**↵**) button to confirm.

Adjusting the Translucency Level



You can set the translucency of the on-screen menu.

- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **Preference**.
Result: The options available in the **Preference** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Translucency Level**.
Press the **ENTER** (**↵**) button.
- 5 Select the required option (**High**, **Medium**, **Low**, or **Opaque**) by pressing the **▲** or **▼** button.
- 6 Press the **ENTER** (**↵**) button to confirm.

Updating the Channel List Automatically

You can update the channel list when the broadcaster adds new services or if you move the TV to a new location.

- 1 Press the **D.MENU** button.

Result: The DTV menu is displayed.

- 2 Press the **▲** or **▼** button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

- 3 Press the **ENTER** (**↵**) button.

Result: The **Auto Store** is selected.

- 4 Press the **ENTER** (**↵**) button again to start the search.

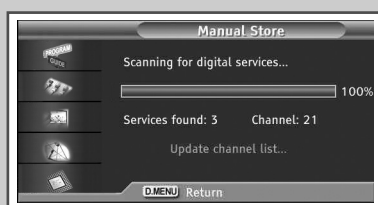
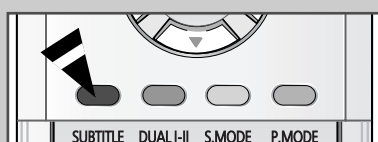
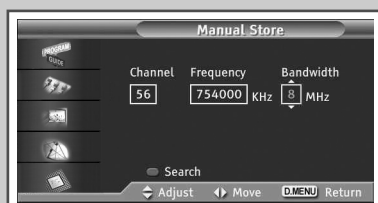
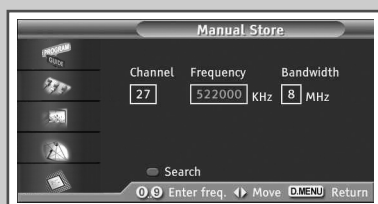
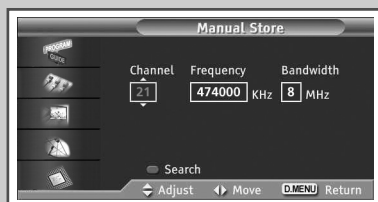
Result: When it has finished, the number of scanned services will be displayed.

- ◆ The existing favourite channel list will be deleted when the channel list is updated.
- ◆ To stop the scan before it has finished, press the **ENTER** (**↵**) or **D.MENU** button.

- If the signal status is poor, the **No service found!** **Check the aerial connection** message is displayed.



Updating the Channel List Manually



You can specify the channel or frequency for a fast channel search.

- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **Channel1**.
Result: The options available in the **Channel1** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Manual Store**.
- 5 Press the **ENTER** (**↵**) button.
Result: The options available in the **Manual Store** group are displayed.
- 6 Press the **◀** or **▶** button to select **Channel**, **Frequency**, or **Bandwidth**.

◆ Channel

Press the **▲**, **▼** or numeric buttons (0~9) to select a channel. The available channels are 21~68.

Result: The corresponding frequency for the selected channel is automatically set.

◆ Frequency

You can specify the frequency (KHz) using the numeric buttons (0~9). If you do not know the exact frequency, follow the above step to select the frequency automatically using channel.

◆ Bandwidth

Press the **▲** or **▼** button to select a bandwidth. The available bandwidths are 7 and 8 MHz.

- 7 Press the red button to start the scan for digital services.
Result: When it has finished, channels are updated in the channel list.

Editing Your Favourite Channels

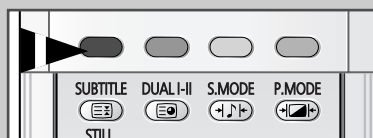
You can edit your favourite channels using the colour buttons.

- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **Channel**.
Result: The options available in the **Channel** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Favourite Channels**.
- 5 Press the **ENTER** (**↵**) button.
Result: The **Favourite Channels** menu is displayed.
- 6 Press the red button to display all currently stored channels.
- 7 Press the **▲** or **▼** button to select a channel you want.
Press the **ENTER** (**↵**) button.
Result: A "★" icon is shown next to the selected channel and the channel will be added to the favourites list.
 - ◆ To undo, press the **ENTER** (**↵**) button again.
 - ◆ **Select All** : Select all channels currently displayed.
 - ◆ **Select None** : Deselect all selected channels.
 - ◆ **Preview** : Displays (a) currently selected channel(s).
 - The Favourite Channels settings have been completed.

◆ Add

You can use this function when one or more favourite channels have been selected.

- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **Channel**.
Result: The options available in the **Channel** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Favourite Channels**.
- 5 Press the **ENTER** (**↵**) button.
- 6 Press the red button in the **Favourite Channels** menu.
To add more channels, refer to the step 7 above.
 - ◆ To add all channels to the favourites channel list, press the red button.
 - ◆ To remove all channels, press the green button.
 - ◆ Press the **CH.LIST** button to display the favourite channel list.



Editing Your Favourite Channels (continued)



◆ Move

- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **Channel1**.
Result: The options available in the **Channel1** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Favourite Channels**.
- 5 Press the **ENTER** (**↵**) button.
- 6 Press the **▲** or **▼** button to select the required channel.
- 7 Press the green button.
Result: A “◆” icon is displayed on the left side of the channel name.
- 8 Press the **▲** or **▼** button to select the channel that you want to move, then press the green or **ENTER** (**↵**) button.
Result: The channel is moved to its new position.

◆ Preview

- 1 In the **Favourite Channels** menu, select the channel to be previewed by pressing the **▲** or **▼** button.
- 2 Press the yellow button.
Result: Displays currently selected channel.

◆ Delete

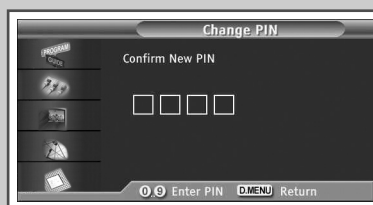
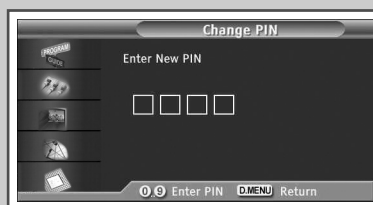
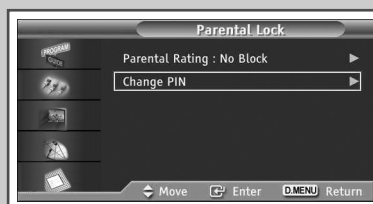
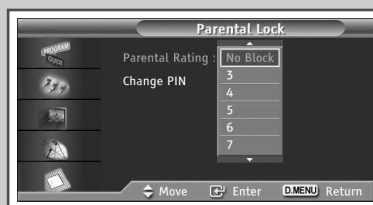
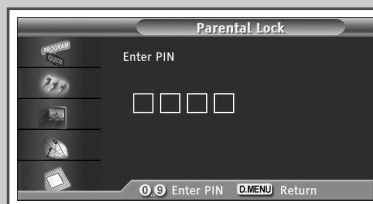
- 1 In the **Favourite Channels** menu, select the channel to be deleted from the favourite channels list by pressing the **▲** or **▼** button.
- 2 Press the blue button.
Result: The selected channel and number will be deleted.
➤ To add a deleted channel back into the favourite channel list, see “Add” on page 17.

Setting up the Parental Lock

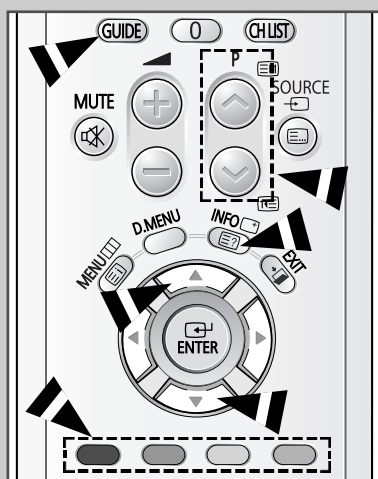
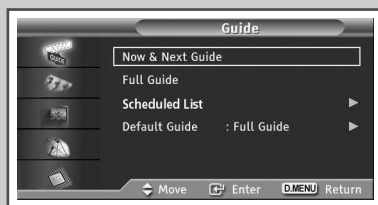
This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by a 4-digit PIN (Personal Identification Number) code that is defined by the user. The on-screen menu will instruct you to assign a PIN code (you can change it later, if necessary).

- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **Preference**.
Result: The options available in the **Preference** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Parental Lock**. Press the **ENTER** (**↵**) button.
Result: The **Enter PIN** is displayed.
- 5 Enter your current 4-digit PIN code by using the numeric buttons (0~9).
Result: The options available in the **Parental Lock** group are displayed with the **Parental Rating** selected.
 - ♦ The default PIN code for a new TV set is **0000**.
 - ♦ If you enter a invalid PIN code, the **Invalid PIN code. Please try again.** message is displayed.
- 6 Press the **ENTER** (**↵**) button.
- 7 Press the **▲** or **▼** button to select the age of 3~18 rating you want to lock out. Press the **ENTER** (**↵**) button.
 - If you set the rating to lower than the parental control level of the channel, the channel will be locked.
- 8 If you want to change the PIN code, select **Change PIN** by pressing the **▲** or **▼** button. Press the **ENTER** (**↵**) button.
Result: The **Enter New PIN** is displayed.
- 9 Enter your new PIN code by using the numeric buttons (0~9).
Result: The **Confirm New PIN** is displayed.
- 10 Re-enter your new PIN code to confirm by using the numeric buttons (0~9).
Result: The **Your PIN code has been changed successfully** message is displayed.

- If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to **0-0-0-0** : **POWER** (Off), **MUTE**, **8**, **2**, **4**, **POWER** (On)



Viewing EPG (Electronic Programme Guide) Information



The EPG (Electronic Programme Guide) information is provided by the broadcasters. Programme entries may appear blank or out of date as result of the information broadcast on a given channel. The display will dynamically update as soon as new information becomes available.

◆ Now & Next Guide

For the six channels indicated in the left-hand column, displays the Current programme and the Next programme information.

◆ Full Guide

Displays the programme information as time ordered 30 minute segments. One and half hours of programme information is displayed which may be scrolled forwards or backwards in time.

1 Press the **D.MENU** button.
Result: The options available in the **Guide** group are displayed.

2 Press the **ENTER** (↵) button.

3 Press the **▲** or **▼** button to select **Now & Next Guide** or **Full Guide**. Press the **ENTER** (↵) button.

Result: The selected guide menu is displayed.

➤ You can also display the guide menu simply by pressing the **GUIDE** button.

4 To Then

Watch a programme in the EPG list

- ◆ Select a programme by pressing the **▲/▼/◀▶** button.
- ◆ Press the **ENTER** (↵) button.

➤ If the next programme is selected, it is scheduled with the clock icon displayed. If the **ENTER** (↵) button is pressed again, the scheduling is canceled with the clock icon gone. For details about scheduling programmes, refer to the next page.

View programme information

- ◆ Select a programme of your choice by pressing the **▲/▼/◀▶** button.
- ◆ Press the **INFO** (i) button when the programme of your choice is highlighted.

Toggle between the **Now & Next Guide** or **Full Guide**

- ◆ Press the red button repeatedly.

Display the **Favourites** and the **All Channels** list

- ◆ Press the green button repeatedly.

View Categories

- ◆ Press the yellow button.

Exit the guide






- ◆ Press the blue button.

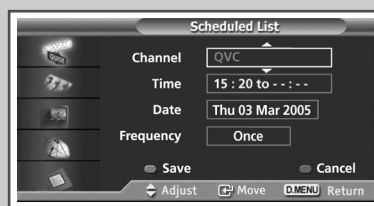
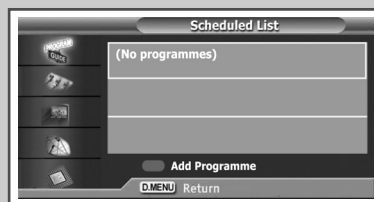
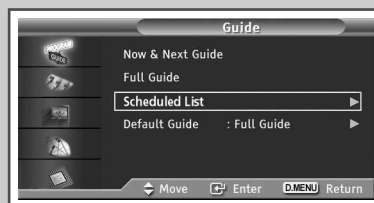
➤ ◆ Information such as the channel number, programme title and running time, status bar, and brief summary of the highlighted programme will be displayed in the top right corner of the screen. If there is a lengthy summary, "... " will be displayed. Press the **INFO** (i) button for the full summary text.

- ◆ Six channels are displayed. To scroll between channels, move to a channel using the **▲** or **▼** button. To display page by page, use the **⏮** or **⏭** button.

Using the Scheduled List

If you make a scheduled viewing list of programmes you may like to see, the channel will be automatically switched to the scheduled programme at the scheduled time even if you are watching another programme.

- 1 Press the **D.MENU** button.
Result: The options available in the **Guide** group are displayed.
- 2 Press the **ENTER** () button.
- 3 Press the **▲** or **▼** button to select **Scheduled List**. Press the **ENTER** () button.
Result: The selected guide menu is displayed.
- 4 Press the red button to add a new programme.
Result: The menu for adding a programme is displayed with **Channel1** selected.
- 5 Press the **▲** or **▼** button to select the required channel.
Press the **ENTER** () button.
Result: The **Time** is selected.
- 6 Enter the start and stop time of the programme by pressing the **▲**, **▼**, or numeric button.
Press the **◀** or **▶** button to move to the previous or next cell.
When you have finished, press the **ENTER** () button.
Result: The **Date** is selected.
- 7 Press the **▲** or **▼** button to select the required date. Press the **ENTER** () button.
Result: The **Frequency** is selected.



Using the Scheduled List (continued)



8 Press the ▲ or ▼ button to select the required frequency (**Once**, **Daily**, or **Weekly**). Press the **ENTER** (↵) button.

9 When you are satisfied with your settings, save the adjusted schedule by pressing the red button.

Result: The scheduled list is displayed again.

10 If you want to edit the scheduled programme, select a programme by pressing the ▲ or ▼ button. Press the Green button. If necessary, select the programme to be deleted by pressing the ▲ or ▼ button. Press the blue button.

11 Repeat step 4 to 9 for other programme to be added to the scheduled list.

- When watching analog TV, the reserved DTV channel cannot be changed. The channel is only changed automatically to the reserved channel when you are watching DTV.
- The more simple and easy way for scheduling programmes, refer to the step 4 on page 20.
- Scheduling programme only functions with the television already turned on, and not from standby mode. For details about switching the television on and off automatically, refer to page 49.

Setting the Default Guide



You can preset the default guide style.

1 Press the **D.MENU** button.

Result: The options available in the **Guide** group are displayed.

2 Press the **ENTER** (↵) button.

3 Press the ▲ or ▼ button to select **Default Guide**. Press the **ENTER** (↵) button.

Result: The selected guide menu is displayed.

4 Select **Now/Next** or **Full Guide** by pressing the ▲ or ▼ button.

5 Press the **ENTER** (↵) button to confirm.

Viewing All Channels and Favourite Channels

In the EPG menu, you can display all channels or favourite channels.

1 Press the **D.MENU** button.
Result: The options available in the **Guide** group are displayed.

2 Press the **ENTER** (↵) button.

3 Press the ▲ or ▼ button to select **Now & Next Guide** or **Full Guide**. Press the **ENTER** (↵) button.

Result: The selected guide menu is displayed.

4 Press the green button repeatedly to toggle between the all and favourite channels list.

5 Select a programme of your choice by pressing the ▲, ▼, ◀, or ▶ button.

6 Press the **INFO** (i) button to display information about the highlighted programme.

Result: The available programme information is displayed.

7 **When the favourite channel list has not been set up:**

◆ **The favourites list is empty. Would you like to choose your favourites now?** message is displayed.

◆ Select **Yes**.

Result: The **Favourite Channels** menu is displayed. If you select **No**, all channels will remain unchanged.

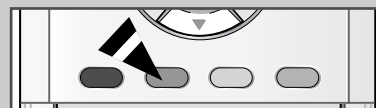
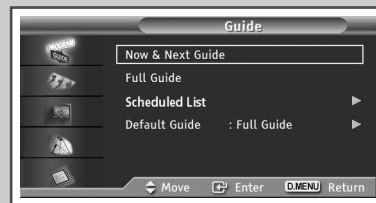
◆ To edit the favourite channels, refer to page 17~18 for more details.

➤ ◆ **All Channels** is the list of channels that have been scanned by the channel list update. All channels are displayed in the all channel mode.

◆ **Favourites** (favourite channels) is the list of channels that has been set in the **Favourite Channels** menu (refer to page 17~18).

◆ When there is no channel information, the **"NO DATA"** message will be displayed and you will not be able to change the channel even if you press the **ENTER** button.





When the **"No data"** message appears and you cannot change the channel, press the channel number directly using the numeric buttons.



Selecting Category Colours



You can change the colours for categories.

- 1 Press the **D.MENU** button.
Result: The options available in the **Guide** group are displayed.
- 2 Press the **ENTER** () button.
- 3 Press the **▲** or **▼** button to select **Now & Next Guide** or **Full Guide**. Press the **ENTER** () button.
Result: The selected guide menu is displayed.
- 4 Press the yellow button.
Result: A pop up screen that enables you to select category colours is displayed.
- 5 Select a category by pressing the **▲** or **▼** button.
- 6 Press the **ENTER** () button.
Result: The selectable colours are displayed on the right side of the screen.
- 7 Select a colour by pressing the **▲** or **▼** button.
Result: The colour selected for a category is stored and the colours for the programme slots of the EPG will change to that selection.
- 8 Press the **ENTER** () button to confirm.

Viewing Channel Lists

You can display a list of all channels or your favourite channels.

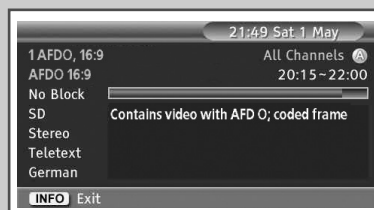
- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **Channel**.
Result: The options available in the **Channel** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Channel List**.
Press the **ENTER** (**↵**) button.
Result: The channel list is displayed.
➤ It can be displayed simply by pressing the **CH LIST** button.
- 5 Press the yellow button to toggle between your favourite channels or all channels.
Result: Your favourite channels are only displayed if they were previously set in the **Favourite Channels** menu (refer to page 17~18).
- 6 Press the red or green button to display the previous or next channel list page.
- 7 Press the **▲** or **▼** button to select a channel to be tuned.
Press the **ENTER** (**↵**) button.
Result: The channel number, name and an icon are displayed in the top left corner while changing the channel.
The channel number and name are displayed if the channel is one of the all channels, and a "★" icon if the channel is one of the favourite channels.
- 8 Press the blue or **CH LIST** button to exit from the channel list.



Displaying Programme Information

While viewing a channel, additional information about the current programme may be displayed.

- 1 While viewing a programme, press the **INFO** (**ⓘ**) button.
Result: The programme information is displayed.
➤ The information displayed on the bottom left side shows:
 - Parental Rating
 - Video Type: SD, HD, Radio
 - Audio Type: MPEG, Dolby-AC3
 - Existence of Teletext or DVB Subtitle
 - Audio Language
- 2 To exit from banner information, press the **INFO** (**ⓘ**) button.



Using the Preferences

You can use various settings to suit your personal preferences.

- ◆ **Activating/deactivating the Subtitle**
- ◆ **Changing the default value for subtitle and audio languages**
- ◆ **Activating/deactivating the Digital Text**



1 Press the **D.MENU** button.

Result: The DTV menu is displayed.

2 Press the **▲** or **▼** button to select **Feature**.

Result: The options available in the **Feature** group are displayed.

3 Press the **ENTER** (**↵**) button.

- ◆ **Subtitle**
- ◆ **Subtitle Language**
- ◆ **Audio Language**
- ◆ **Digital Text**

4 Select your required menu by pressing the **▲** or **▼** button.

5 Press the **ENTER** (**↵**) button.

Result: The options of the selected menu available are displayed.

6 Select the required option by pressing the **▲** or **▼** button, and press the **ENTER** (**↵**) button to change the setting.

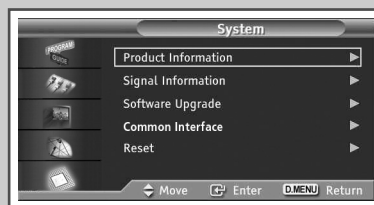
- ◆ **Subtitle : On or Off**
- ◆ **Subtitle Language**
- ◆ **Audio Language**
- ◆ **Digital Text : Disable or Enable**

➤ If the programme is broadcast with digital text, this feature is enabled.

Viewing Product Information

You can view your product information. For service or repair please contact a Samsung authorized dealer.

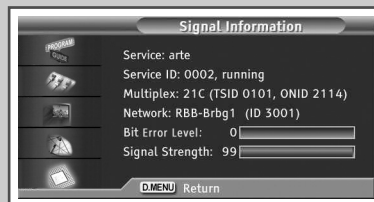
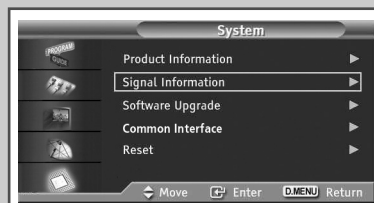
- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **System**.
Result: The options available in the **System** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
Result: The **Product Information** is selected.
- 4 Press the **ENTER** (**↵**) button again.
Result: The product information is displayed.
 - **Software Version**
 - **Firmware Version**
 - **Hardware Version**



Checking the Signal Information

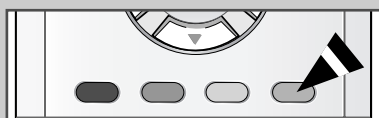
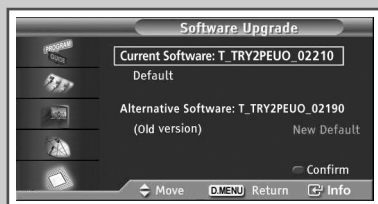
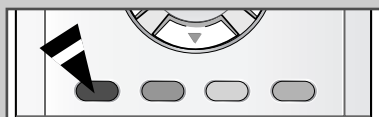
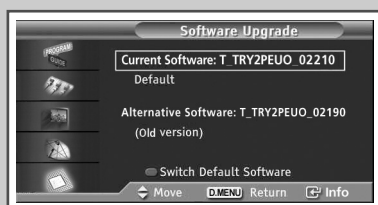
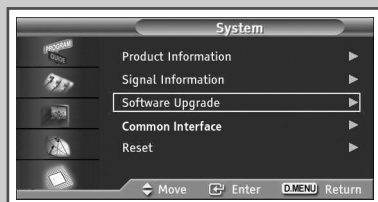
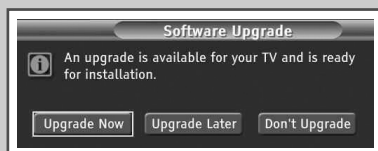
You can get information about the signal status.

- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **System**.
Result: The options available in the **System** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Signal Information**. Press the **ENTER** (**↵**) button.
Result: The technical information for signal status is displayed.
 - **Service**
 - **Service ID**
 - **Multiplex**
 - **Network**
 - **Bit Error Level**
 - **Signal Strength**



Upgrading the Software (Option)

To keep your product up-to-date with new Digital Television features, software upgrades are periodically broadcast as part of the normal Television signal. It will automatically detect these signals and display the software upgrade banner. You are given the option to install the upgrade.



◆ Upgrade Now

If you select **Upgrade Now**, the iDTV immediately installs the new upgrade and then restarts.

◆ Upgrade Later

If you select **Upgrade Later**, the upgrade is postponed until the next restart or channel change some 90 minutes later, when the upgrade dialog appears again.

◆ Don't Upgrade

If you select **Don't Upgrade**, the iDTV does not perform the upgrade and the software upgrade banner is not displayed again. The upgrade is still stored internally, to subsequently upgrade to the new version then the following sequence of steps are performed.

- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **System**.
Result: The options available in the **System** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Software Upgrade**. Press the **ENTER** (**↵**) button.
Result: The information for **Software Upgrade** menu is displayed.
- 5 If necessary, press the **ENTER** (**↵**) button again to display the software version information.
- 6 Press the **D.MENU** button to return to the **Software Upgrade** menu.
- 7 To switch to an alternative version, press the red button. Press the blue button to reset, activate the upgrade and restart.

Viewing Common Interface

This contains information on CAM inserted in the CI slot and displays it.

- 1 Press the **D.MENU** button.

Result: The DTV menu is displayed.

- 2 Press the **▲** or **▼** button to select **System**.

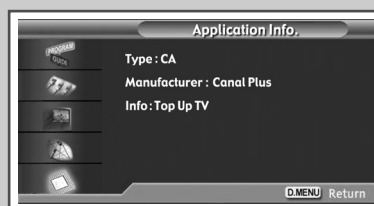
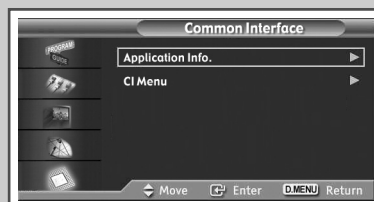
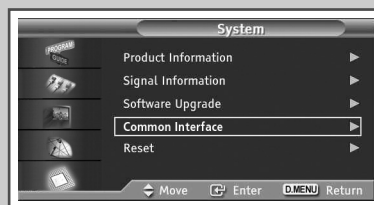
Result: The options available in the **System** group are displayed.

- 3 Press the **ENTER** (**↵**) button.

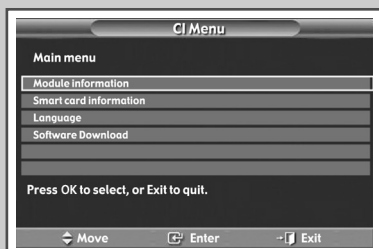
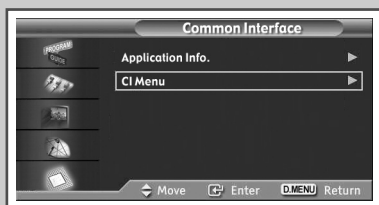
- 4 Press the **▲** or **▼** button to select **Common Interface**.
Press the **ENTER** (**↵**) button.

Result: The **Application Info.** is selected.

- 5 Press the **ENTER** (**↵**) button to display the information for your application .



Selecting the CI Menu



This helps the user select an item from the CAM-supported menu.

- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **System**.
Result: The options available in the **System** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Common Interface**. Press the **ENTER** (**↵**) button.
Result: The technical information for signal status is displayed.
- 5 Press the **▲** or **▼** button to select **CI Menu**. Press the **ENTER** (**↵**) button.
Result: The options of the selected menu available are displayed.
- 6 Select the required option by pressing the **▲** or **▼** button. Press the **ENTER** (**↵**) button.

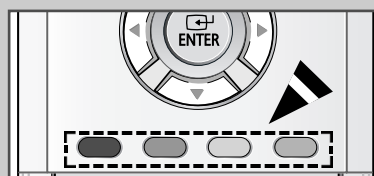
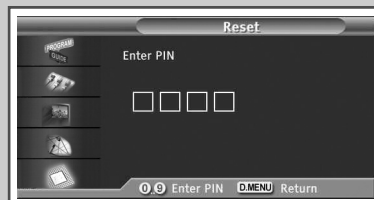
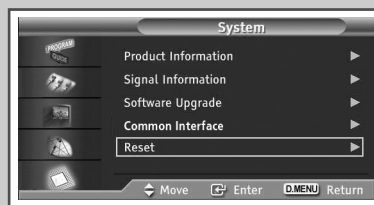
➤ Select the CI Menu based on the menu PC Card.

Resetting

You can reset the values stored to the factory default values.

- The Reset operation deletes all channel information and user preferences returning all values to their default factory state.

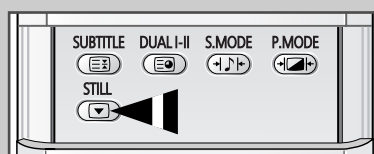
- 1 Press the **D.MENU** button.
Result: The DTV menu is displayed.
- 2 Press the **▲** or **▼** button to select **System**.
Result: The options available in the **System** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Reset**. Press the **ENTER** (**↵**) button.
Result: The **Enter PIN** is displayed.
- 5 Enter your current 4-digit PIN code by using the numeric buttons (0~9).
Result: The warning message is displayed. All values will be reset by pressing the coloured buttons (red, green, yellow, and blue) in turn.



Freezing the Current Picture

- Available in DTV mode.

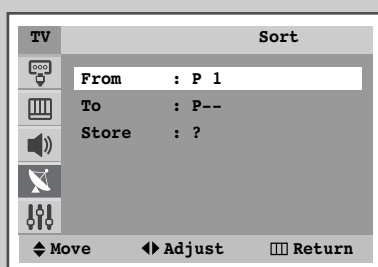
*You can freeze the picture when watching a television programme simply by pressing the "STILL" (**⏸**) button. To return to normal viewing, press it again.*



Storing Channels Automatically

➤ Not available in DTV or external input mode.

You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.



- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
 - 2 Press the ▲ or ▼ button to select **Channel**.
Result: The options available in the **Channel** group are displayed.
 - 3 Press the **ENTER** (↵) button.
Result: The **Auto Store** is selected.
 - 4 Press the **ENTER** (↵) button again.
Result: The options available in the **Auto Store** group are displayed with **Country** is selected.
 - 5 Press the **ENTER** (↵) button again.
 - 6 Select your country by pressing the ▲ or ▼ button, then press the **ENTER** (↵) button.
The areas are displayed in the following order:
Deutschland - Italia - España - Sverige - UK - Others
 - 7 Press the ▲ or ▼ button to select **Search**, then press the **ENTER** (↵) button.
 - 8 Press the **ENTER** (↵) button to start the search.
Result: The horizontal bar is displayed, and then channels are stored in an order which reflects their positions in the frequency range. Finally, the search will end automatically.
- To stop the search before it has finished, press the **MENU** (□□□) button.
- 9 When searching and storing are complete, the **Sort** menu is displayed.
 - ◆ To sort the stored channels into the desired numerical order, go to Step 6 of the "Sorting the Stored Channels" procedure on page 33.
 - ◆ To exit from the channel store function without sorting the channels, press the **MENU** (□□□) button repeatedly until the menus disappear.
 - 10 When the channels have been stored, you can:
 - ◆ Sort them in the order required (refer to page 33)
 - ◆ Clear a channel (refer to page 36)
 - ◆ Activate/deactivate the Digital Noise Reduction feature (refer to page 40)

Sorting the Stored Channels

➤ Not available in DTV or external input mode.

This operation allows you to change the programme numbers of stored channels. This operation may be necessary after using auto store.

- 1 Press the **MENU** (□□□) button.

Result: The main menu is displayed.

- 2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

- 3 Press the **ENTER** (↵) button.

- 4 Press the ▲ or ▼ button to select **Sort**.

- 5 Press the **ENTER** (↵) button.

Result: The options available in the **Sort** group are displayed with **From** is selected.

- 6 Select the channel number that you wish to change by pressing the ◀ or ▶ button repeatedly.

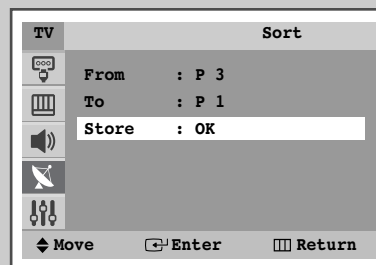
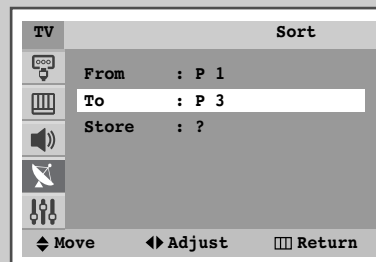
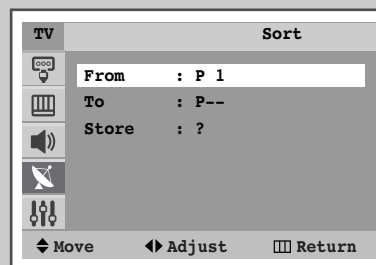
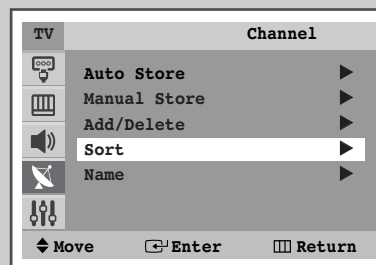
- 7 Press the ▲ or ▼ button to select **To**. Select the new channel number which you wish to identify by pressing the ◀ or ▶ button repeatedly.

➤ You can also select the channel number directly by pressing the numeric buttons (0~9).

- 8 Press the ▲ or ▼ button to select **Store**. Select **OK** to confirm the exchange of channel numbers by pressing the **ENTER** (↵) button.

Result: The selected channel is exchanged with the one previously stored to the chosen number.

- 9 For all the channels to move to the required channel numbers, repeat steps 6 to 8 after selecting the **From** by pressing the ▲ or ▼ button.



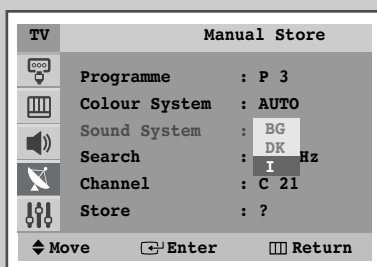
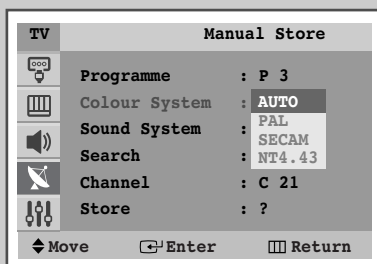
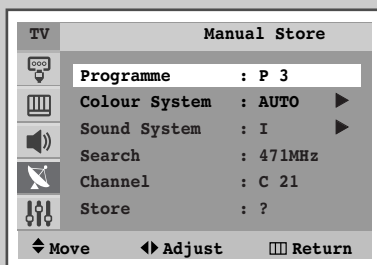
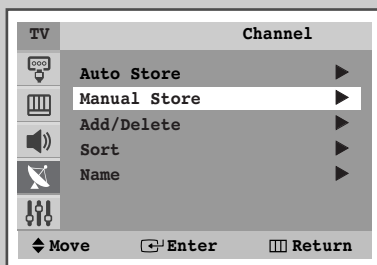
Storing Channels Manually

➤ Not available in DTV or external input mode.

You can store the channels, including those received via cable networks.

When storing channels manually, you can choose:

- ◆ *Whether or not to store each of the channels found*
- ◆ *The programme number of each stored channel which you wish to identify*



- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the ▲ or ▼ button to select **Channel**.
Result: The options available in the **Channel** group are displayed.
- 3 Press the **ENTER** (↵) button.
- 4 Press the ▲ or ▼ button to select **Manual Store**.
- 5 Press the **ENTER** (↵) button.
- 6 To assign a programme number to a channel, press the ◀ or ▶ button.
- 7 Press the ▲ or ▼ button to select **Colour System**.
- 8 Press the **ENTER** (↵) button.
- 9 Press the ▲ or ▼ button to select the broadcasting standards.
Result: The colour standards are displayed in the following order:
AUTO - PAL - SECAM - NT4.43
- 10 Press the **ENTER** (↵) button.
- 11 Press the ▲ or ▼ button to select **Sound System**.
- 12 Press the **ENTER** (↵) button.
- 13 Press the ▲ or ▼ button to select the sound standards.
Result: The sound standards are displayed in the following order:
BG - DK - I
- 14 Press the **ENTER** (↵) button.

Storing Channels Manually (continued)

- 15** If you do not know the channel numbers, select **Search** by pressing the ▲ or ▼ button. Press the ◀ or ▶ button to start the search.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.

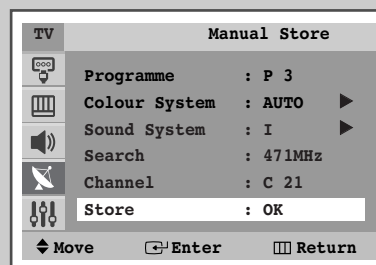
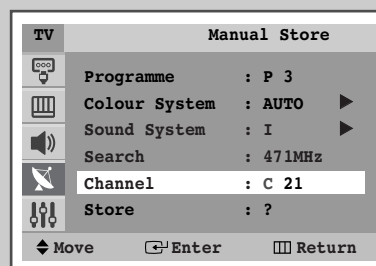
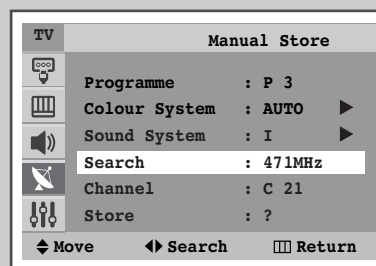
- 16** If you know the number of the channel to be stored, see the following steps.

- ◆ Press the ▲ or ▼ button to select **Channel**.
- ◆ Press the **ENTER** (↵) button.
- ◆ Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel).
- ◆ Press the ▶ button.
- ◆ Press the ▲ or ▼ button to select indicate the required number.
 - You can also select the channel number directly by pressing the numeric buttons (0~9).

➤ If there is no sound or abnormal sound, re-select the sound standard required.

- 17** To store the channel and associated programme number, select **Store** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button to select **OK**.

- 18** Repeat Steps 16 to 17 for each channel to be stored.



Channel mode

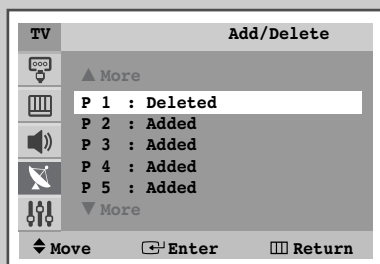
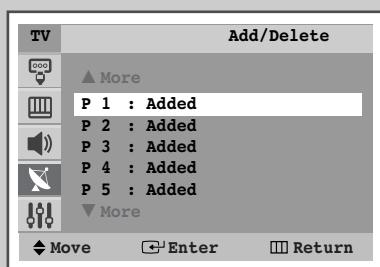
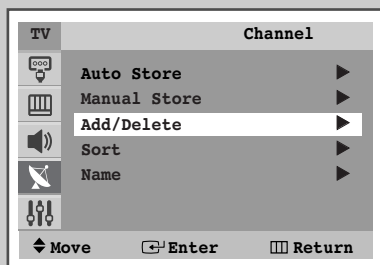
- ◆ **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to max P99. You can select a channel by entering the position number in this mode.
- ◆ **C** (Real channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- ◆ **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

Skipping Unwanted Channels

➤ Not available in DTV or external input mode.

You can exclude the channels you chosen from the channels you scanned. When you scan through the stored channels, those you have chosen to skip are not displayed.

All of the channels that you do not specifically choose to skip are displayed during scanning.



1 Press the **MENU** (□□□) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel1**.

Result: The options available in the **Channel1** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Add/Delete**.

5 Press the **ENTER** (↵) button.

Result: The stored channels are displayed.

6 Press the ▲ or ▼ button to select the channel to add or erase. If necessary, select **Added** or **Deleted** by pressing the **ENTER** (↵) button.

7 Repeat Step 6 for each channel to be added or erased.

8 When you have finished, press the **EXIT** (⏏) button to exit.

Assigning Names to Channels

➤ Not available in DTV or external input mode.

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

1 Press the **MENU** (□□□) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Name**.

5 Press the **ENTER** (↵) button.

6 Press the ▲ or ▼ button to select the channel to be assigned to a new name. Press the **ENTER** (↵) button.

7 **To...** **Press the...**

Select a letter or number ▲ or ▼ button.

Move on the next letter ► button.

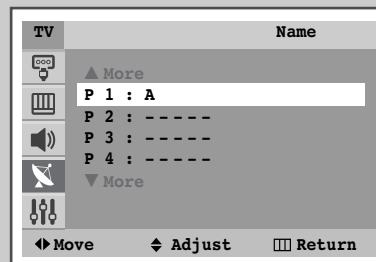
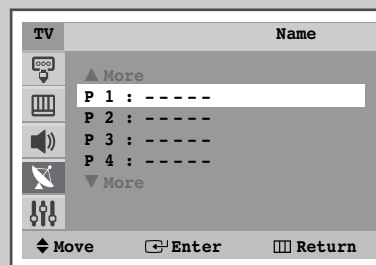
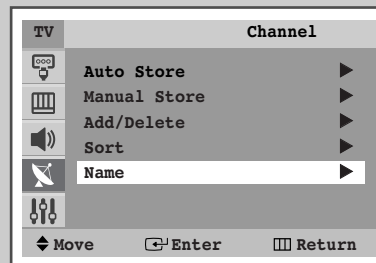
Move back the previous letter ◀ button.

➤ The characters available are:

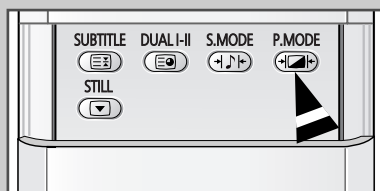
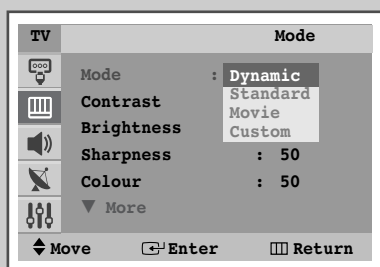
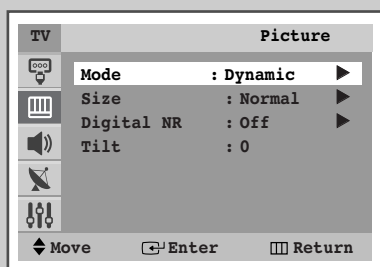
- ◆ Letters of the alphabet (A...Z)
- ◆ Numbers (0...9)
- ◆ Special characters (space, -)

8 You can have each channel newly named.

9 When you have finished entering the name, press the **EXIT** (•) button, or press the **MENU** (□□□) button repeatedly to return to normal viewing.



Changing the Picture Standard



You can select the type of picture which best corresponds to your viewing requirements.

- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER** (□→) button.
Result: The **Mode** is selected.
- 4 Press the **ENTER** (□→) button again.
Result: The options available in the **Mode** group are displayed with **Mode** selected.
- 5 Press the **ENTER** (□→) button.
- 6 Press the **▲** or **▼** button to select picture mode.
Result: The following picture effects are available:
Dynamic – Standard – Movie – Custom
- 7 Press the **ENTER** (□→) button.

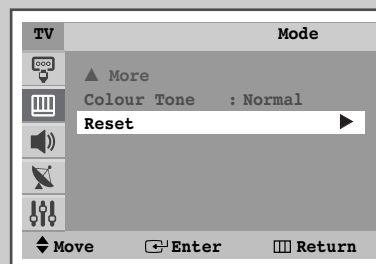
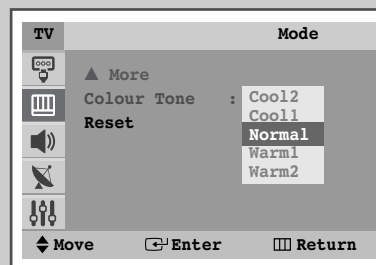
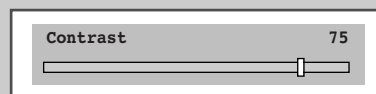
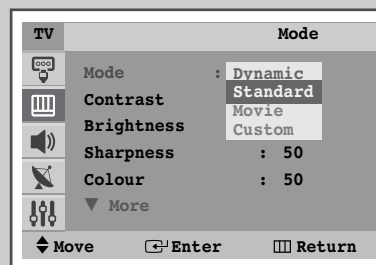
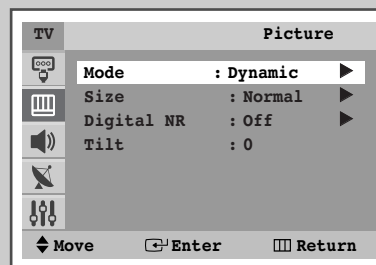
➤ You can also set these options simply by pressing the **P.MODE** (⏏; Picture Mode) button.

Customizing the Picture Settings

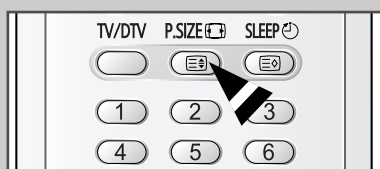
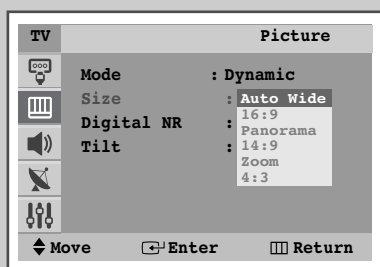
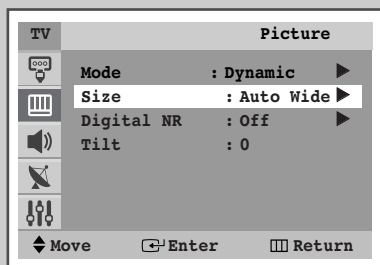
Your television has several settings which allow you to control picture quality.


- 1 Press the **MENU** (□) button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER** (↵) button.
Result: The **Mode** is selected.
- 4 Press the **ENTER** (↵) button again.
Result: The options available in the **Mode** group are displayed with **Mode** selected.
- 5 Press the **ENTER** (↵) button.
- 6 Press the **▲** or **▼** button to select the picture mode. Press the **ENTER** (↵) button.
Result: The following picture effects are available:
Dynamic – Standard – Movie – Custom
- 7 Press the **▲** or **▼** button to select the option (**Contrast**, **Brightness**, **Sharpness**, **Colour**, or **Tint**-NTSC only) to be adjusted. Press the **ENTER** (↵) button.
Result: The horizontal bar is displayed. Press the **◀** or **▶** button until you reach the optimal setting.
- 8 Press the **MENU** (□) button.
Result: The main menu is displayed again.
- 9 Press the **▲** or **▼** button to select **Colour Tone**. Press the **ENTER** (↵) button.
- 10 Press the **▲** or **▼** button to select colour tones. Press the **ENTER** (↵) button.
Result: The following colour tones are available :
Cool2 – Cool1 – Normal – Warm1 – Warm2
- 11 To return to the factory defaults, select **Reset** by pressing the **▲** or **▼** button. Press the **ENTER** (↵) button.
The reset function is set for each mode (**Dynamic**, **Standard**, **Movie**, or **Custom**).
Result: The previously adjusted settings will be reset to the factory defaults.

➤ The television has an “automatic degaussing” system that is activated if magnetic interference is present. To degauss the television screen, switch power off by pressing the “Ⓛ” (On/Off) button on the front panel. (Refer to “Automatic Degaussing to Remove Colour Patches” on page 61.)







Selecting the Picture Size

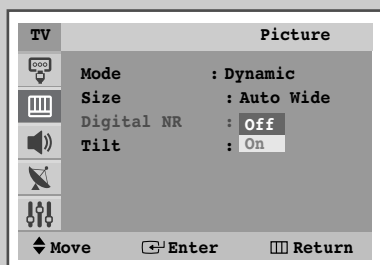
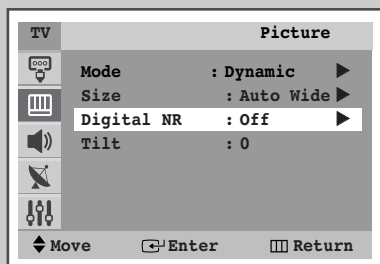


You can select the picture size which best corresponds to your viewing requirements simply by pressing the “P.SIZE ()” button. Depending on the model, the following picture sizes are available:





◆ Auto Wide, 16:9, Panorama, 14:9, Zoom, 4:3

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button to select **Size**.
- 5 Press the **ENTER** () button.
- 6 Press the **▲** or **▼** button to select the picture size.
- 7 Press the **ENTER** () button.

Setting the Digital NR (Digital Noise Reduction)



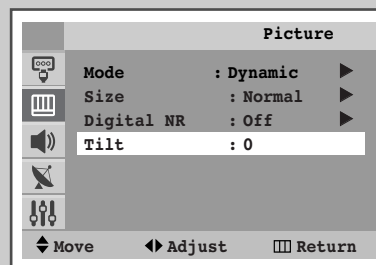
If the signal received by your television is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button to select **Digital NR**.
- 5 Press the **ENTER** () button.
- 6 Select **Off** or **On** by pressing the **▲** or **▼** button.
- 7 Press the **ENTER** () button.

Using the Tilt Control Feature

If you find that the picture received is slightly tilted to one side, you can adjust the tilt setting.

- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER** (↵) button.
- 4 Press the **▲** or **▼** button to select **Tilt**.
- 5 Press the **◀** or **▶** button to reach the required setting (-7 to +7).

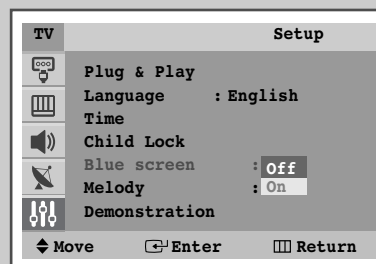
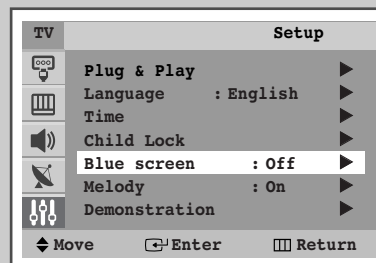


Setting the Blue Screen

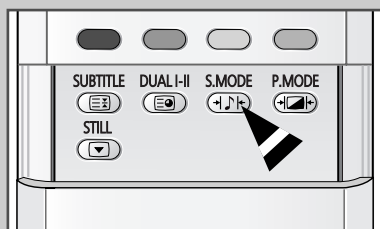
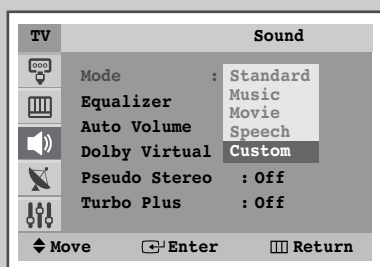
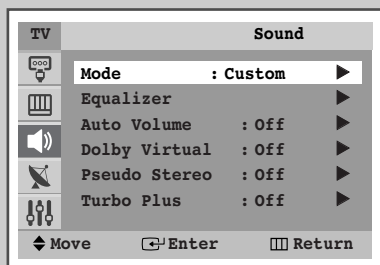
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".

- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** (↵) button.
- 4 Press the **▲** or **▼** button to select **Blue screen**.
- 5 Press the **ENTER** (↵) button.
- 6 Select **Off** or **On** by pressing the **▲** or **▼** button.
- 7 Press the **ENTER** (↵) button.



Changing the Sound Standard



You can select the type of special sound effect to be used when watching a given broadcast.

- 1 Press the **MENU** (□) button.

Result: The main menu is displayed.

- 2 Press the ▲ or ▼ button to select **Sound**.

Result: The options available in the **Sound** group are displayed.

- 3 Press the **ENTER** (↵) button.

Result: The **Mode** is selected.

- 4 Press the **ENTER** (↵) button again.

- 5 Press the ▲ or ▼ button to select the sound mode.

Result: The following sound effects are available:

Standard - Music - Movie - Speech - Custom

- 6 Press the **ENTER** (↵) button.

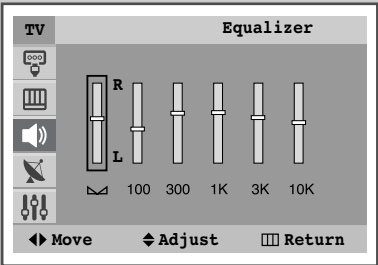
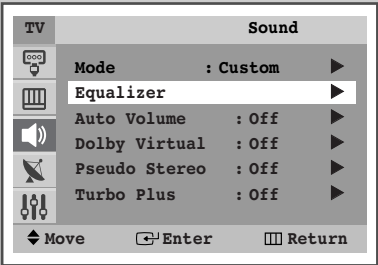
➤ You can also set these options simply by pressing the **S.MODE** (🎵; Sound Mode) button.

Adjusting the Sound Settings

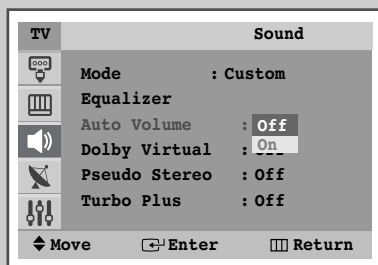
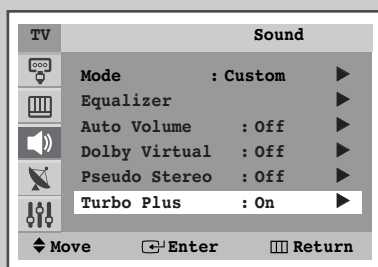
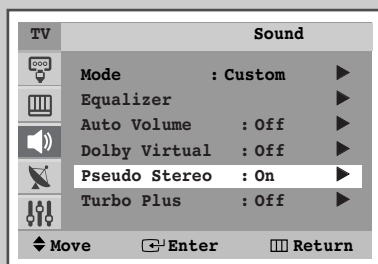
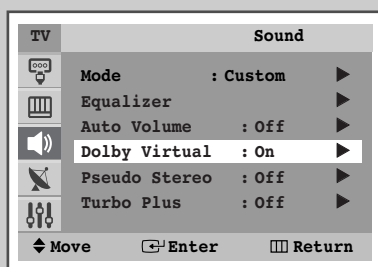
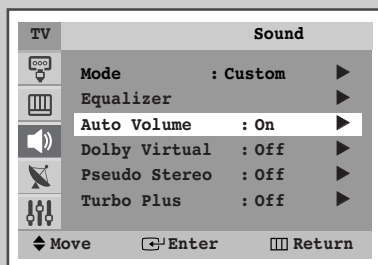
The sound settings can be adjusted to suit your personal preferences.

- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the ▲ or ▼ button to select **Sound**.
Result: The options available in the **Sound** group are displayed.
- 3 Press the **ENTER** (↵) button.
- 4 Press the ▲ or ▼ button to select **Equalizer**.
- 5 Press the **ENTER** (↵) button.
Result: The options available in the **Equalizer** group are displayed.
- 6 Select the option to be adjusted by pressing the ◀ or ▶ button. Press the ▲ or ▼ button to reach the required setting.

➤ If you make any changes to these settings, the sound standard is automatically switched to **Custom**.



Extra Sound Settings



◆ Auto Volume

Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

◆ Pseudo Stereo / Dolby Virtual (Option)

Pseudo stereo / Dolby Virtual (Option) feature converts a monaural sound signal into two identical left and right channels.

Once the **Pseudo stereo / Dolby Virtual** (Option) is set to **On** or **Off**, these settings apply to the sound effects such as **Standard**, **Music**, **Movie**, and **Speech**.

◆ Turbo Plus

This feature suitably emphasizes both higher and lower bands of sound (and includes other effects). You can enjoy more magnificent and dynamic sound when watching music, movie, or other channels.

- 1 Press the **MENU** (⏮) button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Sound**.

Result: The options available in the **Sound** group are displayed.

- 3 Press the **ENTER** (⏮) button.

- 4 Select the required option (**Auto Volume**, **Dolby Virtual**, **Pseudo Stereo**, or **Turbo Plus**) by pressing the **▲** or **▼** button. Press the **ENTER** (⏮) button.

- 5 To activate each feature, select **On** by pressing the **▲** or **▼** button.

- 6 Press the **ENTER** (⏮) button.

➤ Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.



Selecting the Melody

You can hear clear melody sound when the television is powered on or off.

- 1 Press the **MENU** (□□□) button.

Result: The main menu is displayed.

- 2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

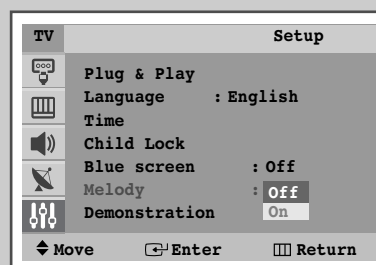
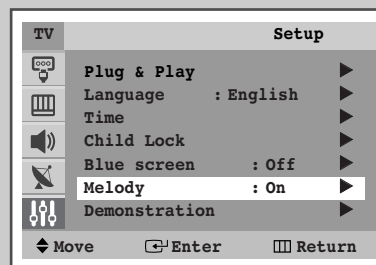
- 3 Press the **ENTER** (↵) button.

- 4 Press the ▲ or ▼ button to select **Melody**.

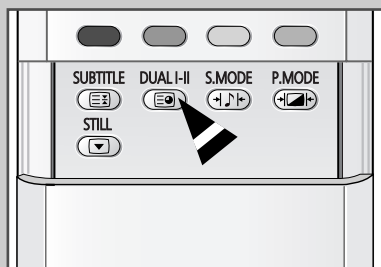
- 5 Press the **ENTER** (↵) button.

- 6 Select **Off** or **On** by pressing the ▲ or ▼ button.

- 7 Press the **ENTER** (↵) button.



Selecting the Sound Mode



The “DUAL I-II” button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either “Dual I” or “Stereo”, depending on the current transmission.

	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	MONO (Normal use)
	Regular + NICAM Mono	MONO NICAM ↔ MONO (Normal)
	NICAM Stereo	STEREO NICAM ↔ MONO (Normal)
	NICAM Dual I/II	Dual I → Dual II → MONO NICAM NICAM (Normal) ↑ ↑
A2 Stereo	Regular broadcast (Standard audio)	MONO (Normal use)
	Bilingual or Dual I/II	DUAL I ↔ DUAL II
	Stereo	STEREO ↔ MONO (Forced mono)

- ◆ If the receiving conditions deteriorate, listening will be easier if the mode is set to **MONO**.
- ◆ If the stereo signal is weak and automatic switching occurs, switch to **MONO**.
- ◆ When receiving mono sound in AV mode, connect to the “AUDIO-L” input connector on the panel (front or side, depending on the model). If mono sound only comes out of the left speaker, press the **DUAL I-II** button.

➤ DTV mode

	When press the DUAL I-II button	After changing channels (Default Mode)	On-screen indication
Mono	Mono	Mono	Mono
Stereo	Stereo ↔ Mono	Stereo	Stereo
Dual Mono	Dual I → Dual II → Dual ↑	Dual I	Dual I

Setting and Displaying the Current Time

You can set the television's clock so that the current time is displayed by pressing the "INFO (i)" button. You must also set the time if you wish to use the automatic on or off timers.

➤ When pressing the "Ⓢ" button (On/Off) on the front of the television, the clock setting will be reset.

- 1

Press the **MENU** (≡) button.
Result: The main menu is displayed.
- 2

Press the ▲ or ▼ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3

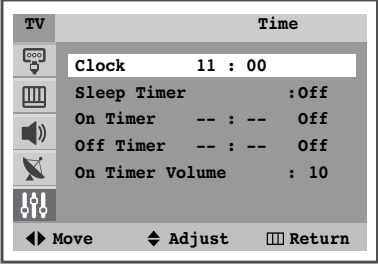
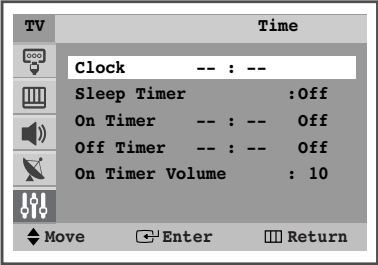
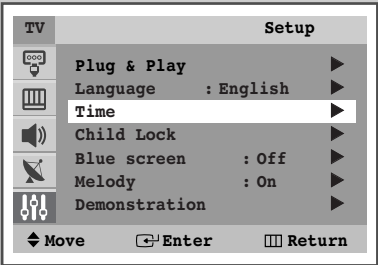
Press the **ENTER** (↵) button.
- 4

Press the ▲ or ▼ button to select **Time**.
- 5

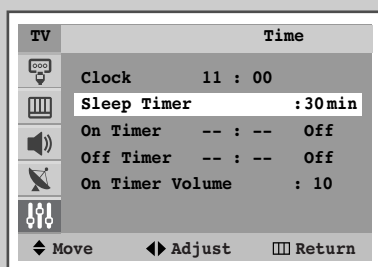
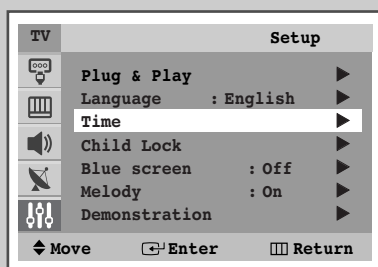
Press the **ENTER** (↵) button.
Result: The options available in the **Time** group are displayed with **Clock** selected.
- 6

Press the **ENTER** (↵) button again.
- 7

Press the ◀ or ▶ button to move to the hour or minute. Set the hour or minute by pressing the ▲ or ▼ button.



Setting the Sleep Timer



You can select a time period of between 30 and 180 minutes after which the television automatically switches to Standby mode.

- 1 Press the **MENU** (□□) button.
Result: The main menu is displayed.
 - 2 Press the **▲** or **▼** button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
 - 3 Press the **ENTER** (⏏) button.
 - 4 Press the **▲** or **▼** button to select **Time**.
 - 5 Press the **ENTER** (⏏) button.
Result: The options available in the **Time** group are displayed with **Clock** selected.
 - 6 Press the **▲** or **▼** button to select **Sleep Timer**.
 - 7 Select the preset time interval (**Off**, **30 min**, **60 min**, **90 min**, **120 min**, **150 min**, **180 min**) for staying on by pressing the **◀** or **▶** button.
- ♦ You can also set these options simply by pressing the **SLEEP** (⌚) button.
- ♦ If the sleep timer is not yet set, **Off** is displayed. If the sleep timer is already set, the remaining time before which the television switches to Standby mode is displayed.

Switching the Television On and Off Automatically

You can set the On/Off timers so that the television will be switched on/off automatically at the time you select.

- The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on the page 47). If you have not yet set the clock, the message **Set the clock first** is displayed.

1 Press the **MENU** (□) button.

Result: The main menu is displayed.

2 Press the **▲** or **▼** button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the **▲** or **▼** button to select **Time**.

5 Press the **ENTER** (↵) button.

Result: The options available in the **Time** group are displayed with **Clock** selected.

6 Press the **▲** or **▼** button to select **On Timer**. Set the time at which you wish the television to be switched on automatically.

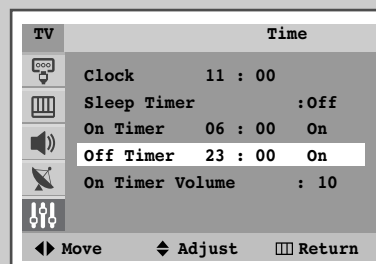
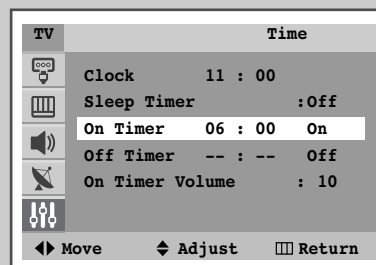
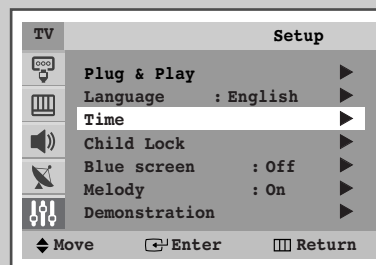
- ◆ Press the **◀** or **▶** button to move to the hour or minute. Set these by pressing the **▲** or **▼** button.
- ◆ Press the **◀** or **▶** button to move **Off** and then, press the **▲** or **▼** button to select **On**.

7 Press the **▲** or **▼** button to select **Off Timer**. As the same above, set the time at which you wish the television to be switched off automatically.

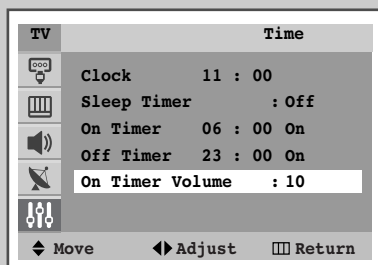
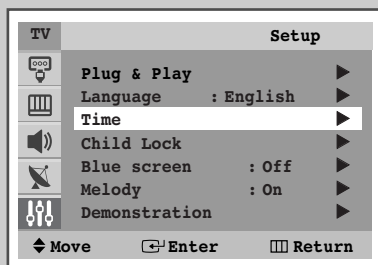
➤ Auto Power Off

When you set the timer "On", the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer "On" mode and prevents overheating or leakages, which may occur if a TV is on for too long (on holiday, for example).

- When the on/off timer is set, and the TV is turned off while watching a digital TV channel (or an analog TV channel), then the TV will automatically be turned on and display the digital TV channel (or the analog TV channel).



Setting the Preferred Volume Level



The preferred volume can be set for when the timer automatically turns on the TV.

1 Press the **MENU** (□□□) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Time**

5 Press the **ENTER** (↵) button.

Result: The options available in the **Time** group are displayed with **Clock** selected.

6 Press the ▲ or ▼ button to select **On Timer Volume**.

7 Press the ◀ or ▶ button to adjust volume level.

Locking the Channel

➤ Not available in DTV mode.

This feature allows you to lock the television so that it cannot be switched on via the front panel. It can, however, still be switched on via the remote control. By keeping the remote control away from unauthorised users, such as children, you can prevent them from watching unsuitable programme.

- 1 Press the **MENU** (□□□) button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

- 3 Press the **ENTER** (↵) button.

- 4 Press the **▲** or **▼** button to select the **Child Lock**.
Press the **ENTER** (↵) button.

- 5 Press the **ENTER** (↵) button again.

- 6 Press the **▲** or **▼** button to select the **On**.

Result: The **Child Lock** menu is displayed.

➤ If you want to unlock a channel, set to **Off**.

- 7 Press the **ENTER** (↵) button.

- 8 Press the **▲** or **▼** button to select the **Programme**. Select the number of the channel to be locked by pressing the **◀** or **▶** button.

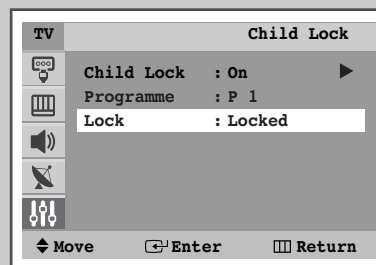
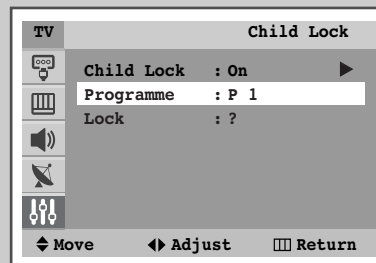
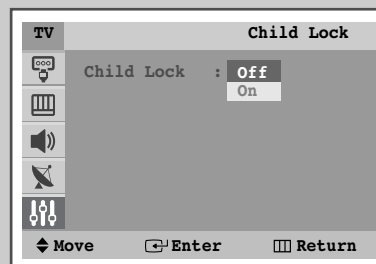
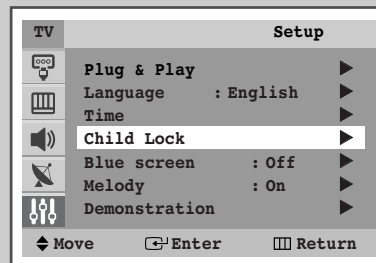
- 9 Press the **▲** or **▼** button to select the **Lock**.

- 10 Press the **ENTER** (↵) button.

Result: **Locked** is displayed.

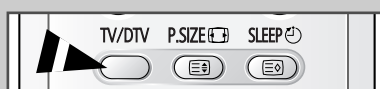
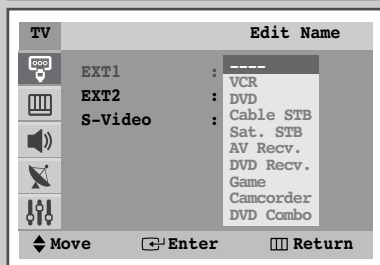
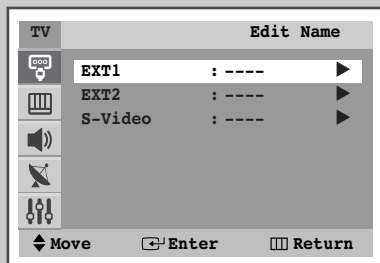
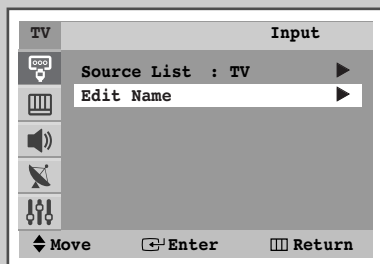
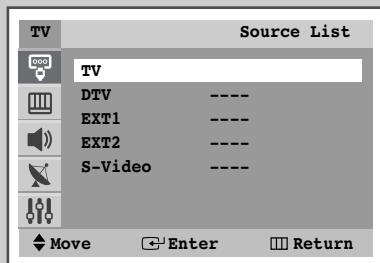
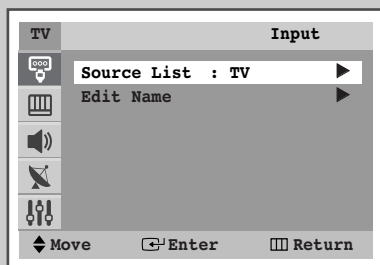
- 11 When you have finished, press the **EXIT** (•) button to exit.

➤ If any channel is locked, you can not enter the **Channel** menu by using the control buttons on the television, and the message "**Not Availble**" is displayed. You can access by using the remote control only.



Viewing an External Signal Source

Use the remote control to switch between viewing signal from connected equipment, such as VCR, DVD, Set-Top-boxes and the TV source (broadcast or cable).



- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Input**.
Result: The options available in the **Input** group are displayed.
- 3 Press the **ENTER** (↵) button.
Result: The **Source List** is selected.
- 4 Press the **ENTER** (↵) button again.
- 5 Press the **▲** or **▼** button to select signal source, then press the **ENTER** (↵) button.
 - ◆ When you connect a piece of equipment to the TV, you can choose :
 - **EXT1** (**EXT1 (RGB)** on the rear panel)
 - **EXT2** (**EXT2 (AV)** on the rear panel or **VIDEO2** on the side panel)
 - **S-Video** (**S-VIDEO** on the side panel)
 - ◆ You can select these options simply by pressing the **SOURCE** (↵) button.
- 6 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 7 Press the **▲** or **▼** button to select **Input**.
Result: The options available in the **Input** group are displayed.
- 8 Press the **▲** or **▼** button to select **Edit Name**. Press the **ENTER** (↵) button.
- 9 Press the **▲** or **▼** button to select external source to be edited. Press the **ENTER** (↵) button.
EXT1 - EXT2 - S-Video
- 9 Press the **ENTER** (↵) button.
Result: The device names available are listed.
VCR - DVD - Cable STB - Sat. STB - AV Receiver - DVD Recei... - Game - Camcorder - DVD Combo
- 10 Select the required device by pressing the **▲** or **▼** button. Press the **ENTER** (↵) button.

- If you change the external source while viewing, pictures might take a short period of time to be switched.
- To watch television programme again, press the **TV/DTV** button and select the channel number required.

Teletext Feature

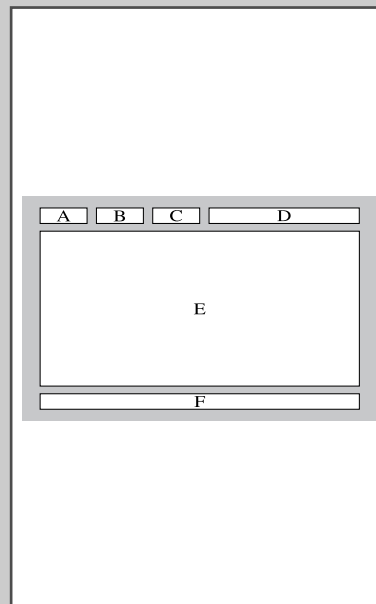
Most television channels provide written information services via teletext. Information provided includes:

- ◆ *Television programme times*
- ◆ *News bulletins and weather forecasts*
- ◆ *Sports results*
- ◆ *Travel information*

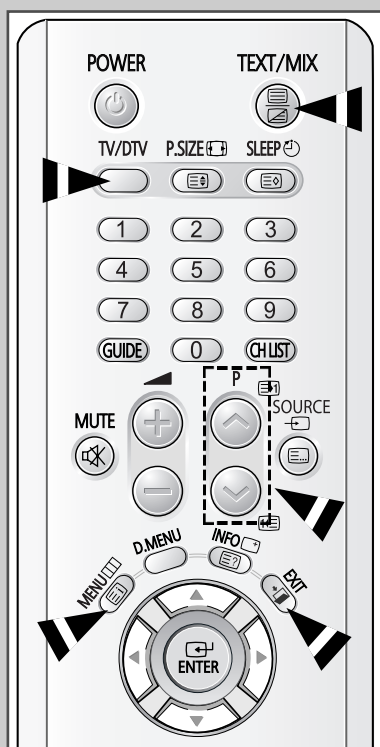
The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

- It can be different from depending on TTX source.
- Teletext information is often divided into several pages displayed in sequence, which can be accessed by:
 - ◆ Entering the page number
 - ◆ Selecting a title in a list
 - ◆ Selecting a coloured heading (FASTEXT system)



Displaying Teletext Information



You can display Teletext information at any time on your television.

For Teletext information to be displayed correctly, channel reception must be stable, otherwise:

- ◆ Information may be missing
- ◆ Some pages may not be displayed

To activate the teletext mode and display the contents page:

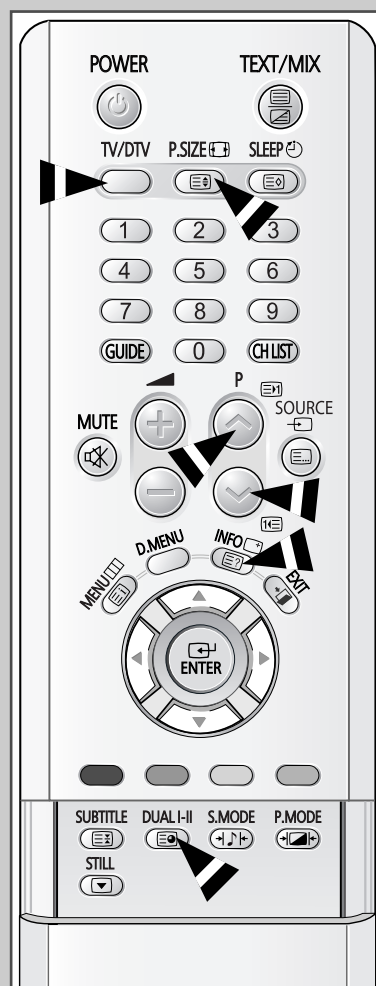
- 1 Select the channel providing the Teletext service using the **P** or **P** button.
- 2 Press the **TEXT/MIX** button.
Result: The contents page is displayed. It can be redisplayed at any time by pressing the (index) button.
- 3 If you wish to display the actual broadcast at the same time as the teletext page, press the **TEXT/MIX** button again.
- 4 Press the **TEXT/MIX** button.
Result: The screen will be split into two. This Double Teletext feature lets you view the actual broadcast and teletext information separately on the screen.
- 5 Press the **TV/DTV** or **EXIT** button to exit from the teletext display.

Selecting Display Options

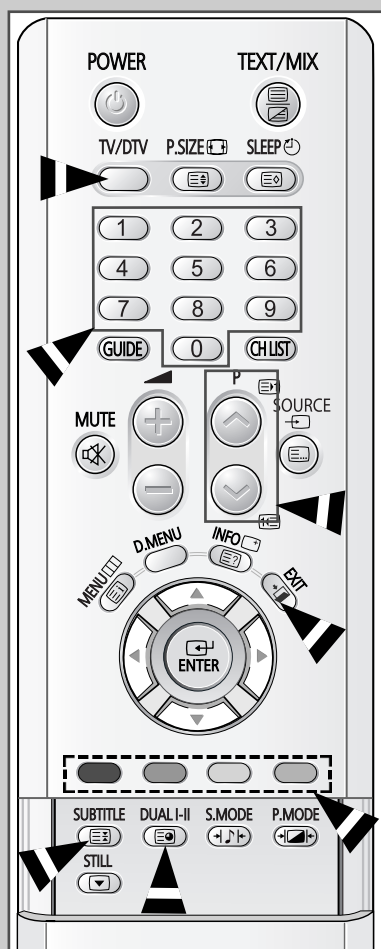
When you have displayed a Teletext page, you can select various options to suit your requirements.

To display...	Press the...
◆ Hidden text (answers to quiz games, for example)	[REVEAL] (reveal)
◆ The normal screen	[REVEAL] (reveal) again
◆ A secondary page	[SUB-PAGE] (sub-page)
◆ The next page	[PAGE UP] (page up)
◆ The previous page	[PAGE DOWN] (page down)
◆ Double-size letters in the: • Upper half of the screen • Lower half of the screen	[SIZE] (size) • Once • Twice
◆ Normal screen	• Three times

➤ To return to the normal display after using the reveal or size feature, press the **TV/DTV** button.



Selecting a Teletext Page






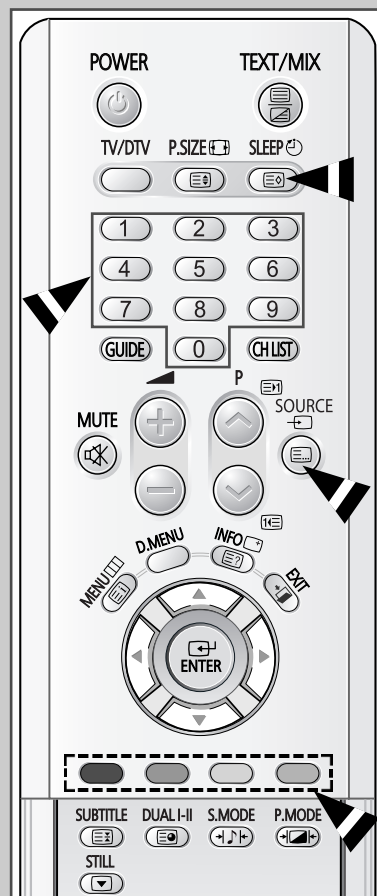
You can enter the page number directly by pressing the numeric buttons on the remote control.

- 1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.
Result: The current page counter is increased by one and the page is then displayed. If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the (hold). Press it again to resume.
- 2 If the FASTEXT system is used by a broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons on the remote control.
 Press the coloured button corresponding to the topic that you wish to select; the available topics are given in the status line.
Result: The page is displayed with other coloured information that can be selected in the same way.
- 3 To display the previous or next page, press the corresponding coloured button.
- 4 To display the sub-page, see the following steps.
 - ◆ Press the (sub-page) button.
Result: The available sub-pages appear.
 - ◆ Select the required sub-page. Sub-pages can be scrolled by pressing the or button.
- 5 When you have finished, press the **TV/DTV** or **EXIT** () button to return to your normal broadcast.

Storing Teletext Pages

You can store up to four teletext pages to display them later at leisure.

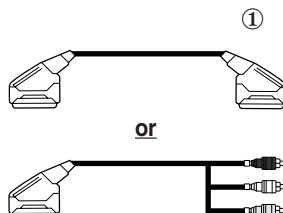
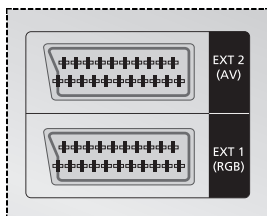
- 1 Select the LIST mode using the  button.
Result: Four 3-digit numbers are displayed in different colours.
 ➤ The  button is used to switch between the LIST and FLOF modes.
- 2 Press the coloured button corresponding to the page that will be replaced.
- 3 Enter the new page number using the numeric buttons.
- 4 Repeat steps 2 and 3 for each page to be stored, using a different coloured button each time.
- 5 Press the  (store) button until the corresponding blocks blink.



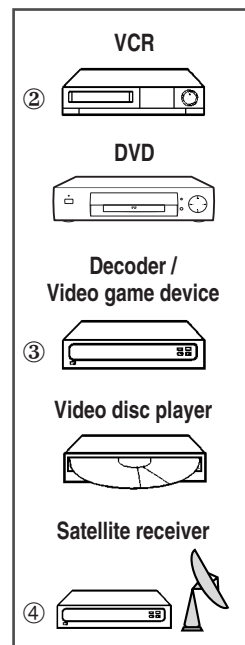
Connecting to External Input/Output

- “**EXT1(RGB)**” is used for the equipment with an RGB output, such as video game devices or video disc players.

Rear of the TV



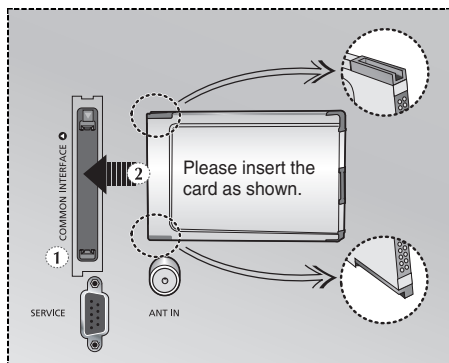
- ① This end can be fitted with:
 - ◆ A SCART connector
 - ◆ Three RCA connectors (Video + Audio-L and R)
- ② If you have a second VCR and wish to copy cassettes tapes, connect the source VCR to “**EXT1 (RGB)**” and the target VCR to “**EXT2 (AV)**” so that you can redirect the signal from “**EXT1 (RGB)**” to “**EXT2 (AV)**”.
- ③ If you have a decoder, connect the decoder to the VCR and the VCR to the television.
- ④ When you wish to record a programme, connect the receiver to “**EXT1 (RGB)**” and the VCR to “**EXT2 (AV)**” so that you can redirect the signal from “**EXT1 (RGB)**” to “**EXT2 (AV)**”.



Whenever you connect an audio or video system to your television, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Connecting to the Common Interface

Rear of the TV



① COMMON INTERFACE

PCMCIA Slot supports the DVB Common Interface (DVB-CI) standard. This connection is provided for future expansion of your Samsung DTV set allowing the installation of DVB-CI compatible peripherals, for example a DVB-CI module to support pay TV services. The availability of DVB-CI peripherals varies country by country. Please contact your retailer for information about the availability of DVB-CI peripherals in your region.

② Inserting the CI (Common Interface) card

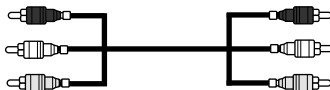
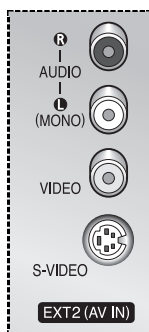
If you want to watch the scrambled channel, insert the CI card into the “COMMON INTERFACE” slot.

Connecting to the RCA input

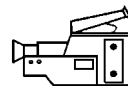
- Please be sure to match the colour coded input terminals and cable jacks.

- The **VIDEO** and **AUDIO-L/R** connectors are used for equipment, such as camcorders, video disc players, and some video game devices.

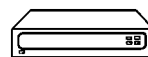
Side of the TV



Camcorder



Video game device



Video disc player



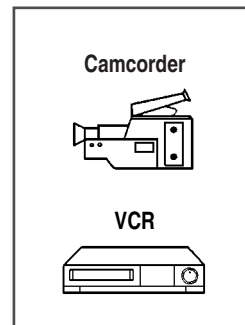
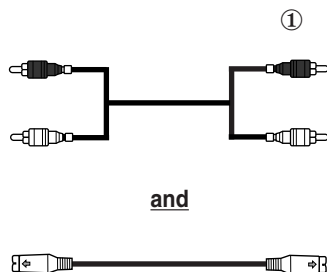
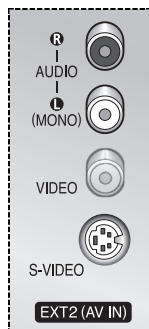
- When both the side AV and rear connectors are connected to external equipment, the side AV receives priority.

Connecting to the S-Video Input

➤ Please be sure to match the colour coded input terminals and cable jacks.

- The **S-VIDEO** and **AUDIO-L/R** connectors are used for equipment with an S-Video output, such as a camcorder or VCR.

Side of the TV



- ① To play pictures and sound, both the **S-VIDEO** and **AUDIO-L/R** connectors must be used.

Automatic Degaussing to Remove Colour Patches

A degaussing coil is mounted around the picture tube, so you do not normally need to degauss the television manually.

If you move the television to a different position and colour patches appear on the screen, you must:

- ◆ Switch the television off by pressing the “ⓘ” (On/Off) button on the front panel
- ◆ Unplug the television from the wall socket
- ◆ Leave the television power-off for about 30 minutes so that the automatic degauss function can be activated, and then press the “ⓘ” (On/Off) button on the front panel.



If your television will be left unattended, press the “ⓘ” (On/Off) button to turn your television off.

Troubleshooting: Before Contacting Service Personnel

Before contacting the Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact the help desk at [0870-242-0303](tel:0870-242-0303) or dtvsupport@seri.co.uk.

No sound or picture	<ul style="list-style-type: none">◆ Check that the mains lead has been connected to a wall socket.◆ Check that you have pressed the “ⓘ” (On/Off) button and the POWER (⏻) button.◆ Check the picture contrast and brightness settings.◆ Check the volume.
Normal picture but no sound	<ul style="list-style-type: none">◆ Check the volume.◆ Check whether the MUTE (🔇) button on the remote control has been pressed.
No picture or black and white picture	<ul style="list-style-type: none">◆ Adjust the colour settings.◆ Check that the broadcast system selected is correct.
Sound and picture interference	<ul style="list-style-type: none">◆ Try to identify the electrical appliance that is affecting the television, then move it further away.◆ Plug your television into a different mains socket.
Blurred or snowy picture, distorted sound	<ul style="list-style-type: none">◆ Check the direction, location and connections of your aerial. This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	<ul style="list-style-type: none">◆ Replace the remote control batteries.◆ Clean the upper edge of the remote control (transmission window).◆ Check the battery terminals.

– AFTER SALES SERVICE

- Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

